

SEQUENCE LISTING

<110> Vogeli, Gabriel
Wood, Linda S.

<120> Novel G Protein-Coupled Receptors

<130> 00100US1

<150> 60/187,828

<151> 2000-03-08

<150> 60/187,715

<151> 2000-03-08

<150> 60/187,929

<151> 2000-03-08

<150> 60/187,930

<151> 2000-03-08

<150> 60/187,825

<151> 2000-03-08

<150> 60/187,833

<151> 2000-03-08

<150> 60/187,830

<151> 2000-03-08

<150> 60/187,829

<151> 2000-03-08

<150> 60/187,582

<151> 2000-03-08

<150> 60/187,581

<151> 2000-03-08

<150> 60/187,714

<151> 2000-03-08

<150> 60/189,294

<151> 2000-03-08

<150> 60/187,874

<151> 2000-03-08

<150> 60/187,928

<151> 2000-03-08

<150> 60/188,049

<151> 2000-03-08

<160> 273

<170> PatentIn version 3.0

<210> 1

<211> 642

<212> DNA

<213> Homo sapiens

<400> 1

ggaaatttagt tgggcagaag ggaataaag tgaggatggt taatgggtac aaaaaatagt

60

00100US1.ST25

taggaaaaaa atgaataaga tctagtatta gatagcacia cagggtgatt gtagtcaata 120
 taatttagtt gtacaattta aaataactaa aagaatataa ctggattgtt tgtaacacaa 180
 atgataaacg cttgaggtaa tggatacgat atttaccctg atgtaattat tacacattgc 240
 acgtctgtat tcaaaatacc ccactaact cataaatatt tatactact atctacacaa 300
 aaaattaaaa attaaaaaaa tttttgcatg atgatcttaa ctgaattttt caataataaa 360
 acattgtctg ttttcattaa gttcaattta gcaatttcaa ttatgtttta ttatttttgc 420
 atcctgaata aaaaatcttc ttatactgca agattttgaa ggcaatctag acttacttct 480
 agaattgtta tgttctacct gttataatca ggcttacaat tcatgtccaa ttaattttca 540
 tatgtaaagt gagttatatt tttcatgaag ttgttcagtt ttccagcccc acttaaaaaa 600
 atgtagaatt gtttcttgc cagttaaact gacctgttt tt 642

<210> 2
 <211> 660
 <212> DNA
 <213> Homo sapiens

<400> 2
 cagggtgcagc atcgtgtcct cagtgtcctg cccctgctt ccaccggtg tcgacagctg 60
 cagggtccac ccacgcctg cctttccatc gttcctcatc agccctgtga tctttcctgt 120
 ggccctgctg tgctggtgcc ctgtgaggtc ctgtggacac aagagactgc acgggccaca 180
 cccccagctg ggtgagtcct ctccctcctg ggtactctgg acagtaaaga aagatggaca 240
 cgtgggctcc gtggagcatg aggtagtcca ggacctggc ggccacaggt cctgcctccc 300
 tgcttctcgt gccctccctc cctttgggtc tctgtccac ctgggtaaac gcttcgttcc 360
 caccctcga agggtaaata gagctccttg gtggtaaagc acccactgcc cctagtcaga 420
 gggctccctc tctctgatgt catggtgccc tggctgcct ggtagaattt tagctgcttt 480
 ataacctggt cctgaaatga accactggga agaaataggg taaaatgaac acacagctgc 540
 cacactgcat cccaacctg tgtgacccta tcaccgcaga cttttgtggc aagatgacag 600
 catctcagtt tgcttgagaa gcttattttt gccaaggctg ttaccaccag gcaggcacca 660

<210> 3
 <211> 436
 <212> DNA
 <213> Homo sapiens

<400> 3
 ctattatttc ttaacatact gcatttttcc gattctctct aagtatctgt ttctgtaact 60
 cctattggac atttacttct ctttcacatt gtctgcttta tctcttaact tttgtgtttt 120
 ctgtctctca ctgctgtatt gtgagttatt acttagctct tccagttaat tctttaagct 180
 tttttgtaa tctctttatc agttcattgt gtttattatt tcagtgacta aatttaattg 240

00100US1.ST25

ctcaaagttt tatttggtcg tttaaaattt gcttttgtct tcatagttat tttgtcctgt 300
 tctctttatc tctttattta tttttgatgc tttcatctgc ttattatttt taagatattt 360
 atttcttagc ctctttgaga tattctatta tctctggtcc taggatcatt aaatctccca 420
 ctacgtctgt agactc 436

<210> 4
 <211> 707
 <212> DNA
 <213> Homo sapiens

<400> 4
 acttctgggc cacggaaagc cctactgtct aaatgctttt caggccaatt tgaagaagta 60
 attagactta ctggaagctt ctgtgaataa ttttgcaagt acaattatgg acttcccagg 120
 aaatattgcc ttcaatatag aaaagcttgt cagttgattc tgatgagata tatgtaaaat 180
 ttgagatttt gatattagaa tgagtaaaat gatgacatca cgatgtatta agttgggggt 240
 ttatttttttg gaattaattg tcatcaggta aaaagccagc tataagtcaa ataaaatata 300
 atcatgttct tccgtcttta gcactcatct tttcttggtc taaatgttga caaatgactg 360
 taaatttaac aagcttatag ataataattg aaaagtcttc taagaactga aaattgataa 420
 acacatggca atggcaggct attgcagtgc aattataaga tgttggtgtg atgccctga 480
 agtgcctata aatgaatgtg acttcagtac tactgccaaa tgagtccaat atcccacaaa 540
 tgaactgaaa ataaagtgcc tggaatactg tgtctacagt gtcactgtaa agttactgtc 600
 atgctgtatt actgaaatga tttgctggaa agtaacatgg cacatatatg caccaagaga 660
 gttaaattct atcttattct atgaaaaatc atgttaacca ttcatga 707

<210> 5
 <211> 529
 <212> DNA
 <213> Homo sapiens

<400> 5
 aacattatta ctttctttta tgaatattct tggcttttcc aaaacaaaac aagctattgg 60
 ttttaataat tatggtataa tcaaataatg aaactctatg catttggtta agtaactttt 120
 caaagaata tcttgtaaca tagaataaca gatcctagtg cattaccac tctttgggct 180
 ttatcgcttt tccaccatca ttatctgcat cactgcctgc aggttttcta cacggccagg 240
 gttggtctct gcctgctcaa tagtcaagtc aaaagaggca ggaaattaac accctctgga 300
 ggcagccttt gaggaatgat ccatgggagg tggagtataa atacctcagc tctgtttcct 360
 ctagagatat aactaaggaa tgggttttac attgtttctc agagtttcct caaggtttta 420
 aacttcaatc acccacaggg ggtagtgggc tttatcatag tatacatccc tttgtggctt 480
 cccttccttc ttgtctcact tctccattcc aaactaggat ttatttctt 529

<210> 6
 <211> 688
 <212> DNA
 <213> Homo sapiens

<400> 6
 aagtattctt gtcacggaaa gaagaaaagg gttgggtagt tacaggggga caacaatgcc 60
 agaactgggg agtgtggact gggatacaag agaatgaggg agctcaggat gagcagaagg 120
 gcggggaagc aatattcatt aagcaccttc tatgtgccag tcaataggcc aggcttcaaa 180
 ttattacctt gctgaaatct tcacagcagc cctctaatag gtatttatcc ctgattccat 240
 atccatgctc tgcttcccct cctattacaa tggctgaaga attcaaacc ctttcaaagg 300
 ctagcactgt catttgtcct ctagatccca tccctccat tttctttttt attgaaacat 360
 tctcaatggt attcaaacat actctgctct ctcttctatt aaataggcaa atgcaactca 420
 tcaagctctt tttctccctt ggctactgcc ccatttctct acttctcttc atggcagaac 480
 ttctcgaaag agtttttcac aatcacttca tttccacacc tctaactgac ttttgaacac 540
 aactagagga ggagtaggag gggacactca ttccaaagtg tccaattaag cccaatcctt 600
 taaaagtatt atgttgtcat gatggctggt aagagcatgg tgaaaagata ttagaataag 660
 atgtggggaa tcatgaccgt gagacaga 688

<210> 7
 <211> 552
 <212> DNA
 <213> Homo sapiens

<400> 7
 aaagaaaaag aaagagtagt gtaacaattc cacttctgga ttaacattgt aaggagactg 60
 tggacctgtt acagcagaaa acagatataa taggcaaaaa ttatttttta aaaaatctcc 120
 agaaattgtt ctaaaaacat acagcagact tttaaaaaac ttgtctgaga aaatgtacta 180
 aatctctgta agacaaacaa gagtctgtgg cacgtgagca atgtttgcct cactctaacc 240
 tctccctccc aggtcacctt cataaaagt tcaactctggg aagggtgtgcc caaattgaga 300
 ttacctgccc cattaatttc caatcaaagg atacagtata tcaccaggaa ggtagccacc 360
 agcatttctc agcccctctt actccaagtt gcagaggata aattcctggt gagtatggcc 420
 aggaggccac gtggccacct ggccaccact aatagatcag aggattaatc tcacacatgg 480
 aaggatgagc atactgggcc cctgattgcc ctgaccccag cttacttata ggatggaagt 540
 ttcacatcag ga 552

<210> 8
 <211> 684
 <212> DNA
 <213> Homo sapiens

<400> 8
 agttaacaaa aaaatactac ttaacctctg ctagaacata atgtgataca tttttgacac 60

00100US1.ST25

```

ctcttagctt ctttagctga atttcagaaa tgcaaccatt agtattaaga agcaggtact 120
aaggattttc caaatcattt tgttattctt atcaatattt ctagtattct tttagatccc 180
ttcactcact ttctctattg ctttccattt cctgaagttt taaataaaat ttcccttctg 240
tttgtcttgt aggaaaaatc atcatgctta ccacatagaa tgtgagttgt aggagagaca 300
caatgggaga catcgggtta gggacaaaag acattaacat tttaggtgat tgtgagttca 360
taatttttcc agaacacaag cattgcatgg ctactcta atactagatt attaaaatag 420
atatatcttt gccctacctg ataaacacta ttgtataag tgaatatatt tttaatatta 480
atccaatata tttcataaga aatatttgat ttgcaaagta atctgagcat tacgatgatt 540
ccctatctaa atactggcat ggtgaaaatg aggacaaatc taccctttct ctaatgtagt 600
tacaggcaag ctatactcat ataataaaca tagaacgtac aatcaaaacc aatgcatgag 660
tgtaggatgc aactaaagtc aaga 684

```

```

<210> 9
<211> 641
<212> DNA
<213> Homo sapiens

```

```

<400> 9
atcattttga taaccagtct gatctgagaa aattaaacca tgtcattcaa aacatgtcct 60
cccccatttt aagaaacatt aggtcaatct cctgggttaa taatagctgt atgttttagt 120
agattttgaa atattatgta atcatttgaa attataagct tctggccac aacttgactg 180
acaaatacct gtttcattat ttttaactag cctttgttgg actacatatt tccaaagaca 240
aaagaaagat aaaagttgaa ataatccaac agttatccta cacaaaagta tgacaaaatt 300
accgttgacg aaattgaact catcaagcct gaacttttga ctttgaacaa ttacatggaa 360
gagtgccacc atggtgaact gtcagacctg tacagcatca cagccaactc tatacacaaa 420
caagggtggg ctgtattctg accattattg gaataaatta tcttgattac ctaatgtctc 480
ttcacacca ctaaattatt tattattatt atatttttac actgcatca aattaaagtt 540
gctaaaacac aactttgctc atgttcaaaa ttctatagt gtgctcaac aatcactaac 600
taatctcag aattaattac ctactaattt gtttttgaca t 641

```

```

<210> 10
<211> 520
<212> DNA
<213> Homo sapiens

```

```

<400> 10
tctagaatct atacatacta tgtccaatcc ctgttcaca agtagttatt tatatgtgcg 60
aaggttcata ctctgattt tccttttgct ccagggcaaa gaaaagatac tgaaatacaa 120
ggtgagctta tatcagccca gtagtaagcc agtgagggct accacagttt ggaagaagca 180

```

00100US1.ST25

gggtgaaact tttacatgag attgggggga aaaaccatac tgaataataa aggggttttaa 240
 ctgagattga aagatagtgc tttgagaagc acacaaaaga ttcaaatgg gcgtataaag 300
 aatgacctgt gctgaaaaac acattttttgc gctacaaggg acccaattga ctagatgaga 360
 atttgtgtgg aaaaggagtt gataaggcag gctggcacat tgcagccaat ctgtgaaagg 420
 cttttcatgt cctgtgaaca ggaaatcaca taccacaaga gtggtctagg aatctgtgtc 480
 tggaaccct acagtggggc agactgaaga ggaataacg 520

<210> 11
 <211> 668
 <212> DNA
 <213> Homo sapiens

<400> 11
 atgggcaccg ctctctttta agtacacttt cctgactcag ctgtcctctt ttcctcctcc 60
 attcccacca attctgggct acaggctttt cctctactct cccacagcat cctccctgag 120
 ccctcaatca aagcacctac aatactgccc tcatagggag gtgctatctt tctgtctttc 180
 cctgagcgct gggaccattt gcatttcacc catttatccc caaggcctag cacatgtcta 240
 gcacaacaca gcaattaaat aaacctgtg gaataaatta attgtggaat agcctgggtt 300
 ccatggatgg ttatacaggt tgtgcactgc acaacctgt gcaacattcc tggaaaaaga 360
 cagaaattta ttgattggtt ggggggtttg aatagccaag gaaaactatt tgaccattgc 420
 atgccctcta cctgggaaaa tcacataccc taacaacttc ttaggcctta ctgcatggtc 480
 acatggggta acattcatac agtttctcca gctctctagt ctgccacaa aggtgatatt 540
 gttcaaagg gcaatctttc cttgccttcc accagtctat tcttaacttg acccaagtaa 600
 tctctttcac tgcttaccaa agatatttca gcttcagcta tctgttttg agaatggtga 660
 cgtattcc 668

<210> 12
 <211> 625
 <212> DNA
 <213> Homo sapiens

<400> 12
 tcaatagcaa taaagcacac caagcacaca gatctcgact tttgaatgcc acttctccat 60
 cttaaaagac aaaaacagga catcttagac aaatggccaa ctccagggtg gttggggcaa 120
 ggaaagaaga cgtgcttgtg cacatcttgg tacatcaggt ttaggaagct gtcactggtc 180
 aaatctggga caacttgaac atcaaaataa ataatcattg taatggatta taactcatcg 240
 atgtaagtct ctaagtacac acttatatca atacatatgt acatatacac atacatacat 300
 ctttacatac tactgaatgg caactaataa tggcatttgg caaactgtta tgctaacaat 360
 taactcaggc aagaacatc aatggaggct aaaactggta gataaaattg ggatgagtag 420
 attttacaca gtctccaagt gactttccac aaaataccca ttattacaaa ggaaaagata 480

00100US1.ST25

gataggtttg cagcagaaaa aaaaatgtca gacatcatct taactagggg atcagtgtta 540
acttctccag catgagacaa gtagacaaac aactgccatc agagaggatg aagtaagaca 600
cagcatcact tctgtgaaat tctgg 625

<210> 13
<211> 616
<212> DNA
<213> Homo sapiens

<400> 13
tccgatgatg ttaacacccat attattttta aagaacatga agattacata agagtaggca 60
tttgcttatt tgtattttta agagtctgct cagctcttaa caaggaaggg cctatgcaaa 120
atgagaaata aagtgaaaaa cgatttgctt gtcagtctga aataacttag gtgtcaaaaa 180
caagtaactt tcacctcct tcaacctgtc ctcttgccat ttagcaatct aaaataatta 240
tccaatgtat ggttgactc caaaaatcat gttaaacttg agatattctg aatttttgtt 300
acaatttttg gtagagggtg agagatagag aaaaatctta cattgtgttc agtgaattcc 360
cagacctcg gggtaaaata agtgcaggaa gaatctcatc aggatatctc gggcaatttt 420
tcattagtac gcatgacaag ctgtttcacc acaggctatt gtttttatgg aaagttcaaa 480
tatagcagga tgggatgtat ggtgtgatat taacacatat gaacacaatt attacctatt 540
ttaggtatat acgaccttg tcacctagaa acattgatac ttttcattat gatgtacttt 600
tatagaataa gataaa 616

<210> 14
<211> 599
<212> DNA
<213> Homo sapiens

<400> 14
ggcctctctg aagggaagc aagcttgcat ctagacttct ttctaaagat aacctagaca 60
ataatgaata cagctgccac cagcctccta tgcactagag gcattattct aggagtttcc 120
gtgtattaag cttatcctga aattagttcc ttcttatgac tgagaggaga agtattacat 180
attgatttca ttgttagaaa tgggaaaatt tttacaagt gtatttagag ggcaaccaca 240
ttttctgctc tgcaacctgc ttctccccct tcacgtcagg acatctagat gaaccactc 300
ttcggaaagg ctgcagagaa acatgtccta cagacctact atcatctggg taacaactcc 360
cagtggacgg accaaaattc cagacgttcc ccactttctc tccactgcac ggatgctgcc 420
acacatgctc atatacctct gaaccttcca gtgactacgg cacagcgaca gctgagttcc 480
tgggcgaga accactgggg cagcttttgg cagctatgag caaatcactg tgcacaaagg 540
caatcccagt ttacacttcc acagagagga actgaatata ctgcccacc tcacctgac 599

<210> 15

<211> 617
 <212> DNA
 <213> Homo sapiens

<400> 15
 aatactagat tccttcaggg acttttttaga acaaggacaa gaataatcct ttctcgacaa 60
 agtaaggagt gatctatctc aaggcagaag catattctcc tacaccagga ggaatttcca 120
 ttaacataag caatgccccca aggatgcttg ttatcatttt tattcaatgt tgttttctgt 180
 gttctggcca atattatgac ttgagatata agtgagaaag atgactaaag gaattcatga 240
 gacaagatga tcactattca ggagatggta tgattgtcta tctagaaaaa aagaaatgac 300
 tccatcgtaa ttctgggaat ttactaacag tggctgggtc ctggacaaac atttaaaaaa 360
 tcaatcgttt ccttgtgtgg cagcaataac catttagaaa atggagtaaa tgcggagtta 420
 aggggctgtg aatatataac agcaagaact cctgatctgc cgtcccgaca agtcgcctcc 480
 ggagtggaca cgggccaggg aaggcaggtc tctggaggga aggtagagag aagatacggg 540
 ggatctgccc ctccccaggg aagctccccg agaaagggcc acaactgttt actccagcag 600
 gctctggggg gattcag 617

<210> 16
 <211> 518
 <212> DNA
 <213> Homo sapiens

<400> 16
 gaaaaccttt gactactttc tctgtctcac ggcatgatt cccacatct tattctaata 60
 tcttttcacc atgctcttaa cagccatcat gacaacataa tacttttaaa ggattgggct 120
 taattggaca ctttggaatg agtgtccct cctactctc ctctagtgt gttcaaaagt 180
 cagttagagg tgtggaaatg aagtgtgtg gaaaaactct ttcgagaagt tctgccatga 240
 aaggaagtag agaaatgggg cagtagccaa gggagaaaa gagcttgatg agttgcattt 300
 gcctatttaa tagaagagag agcagagtat gtttgaatac cattgagaat gtttcaataa 360
 aaagaaaaat ggaggggatg ggatctagag gacaaatgac agtgctagcc tttgaaaggg 420
 gtttgaattc ttcagccatt gtaataggag gggaagcaga gcatggatat ggaatcaggg 480
 ataaatacct attagagggc tgctgtgaag atttcagc 518

<210> 17
 <211> 375
 <212> DNA
 <213> Homo sapiens

<400> 17
 acagggcatc ctgccttcc acccacttta aaacagcctg caaggcagtg tgtgacctat 60
 ggctttaact ctgatgagga ggattcctca tggcatgggt tgctgagaac cctgaatcac 120
 aagggtataaa gcagggaccg aaggactgtg cccactgcag caaccccccg ctgggtttta 180

00100US1.ST25

tgctctcctg ttgccaccct gaaattttta aagacttttt acgggggtctt gctctgtcat 240
 ctaggctgga gtgcagtgaac atgatgtctt atacctcatc tggctgagac tcactagaga 300
 aggtcactag ttagaactag agagggggct gggcacagtg gctcatgcca gcactttggg 360
 aggctgaggc aggag 375

<210> 18
 <211> 687
 <212> DNA
 <213> Homo sapiens

<400> 18
 cttgtagcaa tataaagcct taaatttttt ttctgtagga aaatatcaca cagatggcta 60
 attatatgcc atataaagcc attaaggaag aaaggatggc aaatgctcct tttagtgaga 120
 cttctttgtt atgagatctg ggtataaaaa tgtgcagggtg tgtaaacaga ggaaggagaa 180
 ttctgattaa gtccctcaag aattgaagaa aatgggggtga gagacagaga acaactgtga 240
 gctaggaaaag ctcaaggagt aaacctaaca agaaagttaa agcaatggct acttttatac 300
 agttttatttt agtaagtga aatacttaaa atgaagttat ttataaagtt tatttgagtt 360
 gttttctgat aattaaatag catgagaaat gggaggaatt tgagatattg cagttagaaa 420
 gggagcagtg caccaaactt attcttaact taaaagtcca tactcttacc taaggtaagt 480
 cctaattgta caccaactta aagctgaatt agacaggaat attgcaatga ataagcaatg 540
 actattcaca atctactcag cataaaacag gttcattaag aaaggttctg caataacact 600
 ctatgtaaga gtttatggaa caattaatag aataaaaattg atgtacattt tatgtactac 660
 tgcattttac atattctaag gcacgag 687

<210> 19
 <211> 546
 <212> DNA
 <213> Homo sapiens

<400> 19
 cccttgagca cacacagggc gatacttgcc acagggtggg actgaaggct tctttcttgg 60
 cttatagttt ggaagcaatg ggagttggga gctccaaatc attcatggga caaatatcct 120
 gtcttatatt gcttaaaaaa aaatcctatc taatttttaa gacaggggtg tttgctctta 180
 aagcactttg catttaattg tgtaattac agaaattttc aatgctctct gaagaggtaa 240
 ttgatattaa ccatggtaat tctaatagct aacacatatt gggcatacgg tttttcacat 300
 gtctaaacag tccatgtttc cttaaaaatg cagattgcag ggccccacac tggctgggga 360
 attgcactt ccagtaaaca cttcagatga ttttcatgat ctttcaagtt cggggaaaat 420
 ggagctcggt ttocactaga ttaaagcagt attccactgt atgcgttctc aggccctaaa 480
 agaatcaaca ctctcaata agtaaacatt cacttaaaca tatccagggt gatccaatga 540
 tctacc 546

<210> 20
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 20
 ctgctctata taaagatata gtccatgtat atggctgagt cttttatagt ccaaaatgta 60
 tttttctgtg tactatgggtt tattaacttg acttatTTTT cttctttcag atttaaaaaa 120
 tgTTaactaa ttaaagtaac ttcccaagta cctaccaatg acattaatct tcctcttttt 180
 gtcgtttgtt ctttttacc ccaaactcta ttaatacagc aactttttta tatgattgtc 240
 tacttttcag agtacttctt aacaacatag caaatgccaa aatgttaatg gaagtattaa 300
 tgaaaacatg caaaaaatat ttctttatga ttctgataat tattgaaatt gccttagatt 360
 aaacatgaat aaatttaatt attatatatg tattcaaata gttggatata tagtcctgag 420
 aaagaatcct tcactacata tgttataaaa atgggaatga acacattacc taagaagtct 480
 gcactagaaa taataagata ccttttcatt cttgacatct ttcttctttt tgaaccaagt 540
 atctgta 547

<210> 21
 <211> 731
 <212> DNA
 <213> Homo sapiens

<400> 21
 tatcatgctg ccgcttccaa tgggcatctg ttccaccatg ttgtgggcat tcattggagc 60
 tttgttgctt ctactgtta aaccctcctg tataattctg gggcccagc agaaaacagt 120
 atgttaccct aaaatagggc aattgaagga tctttcaaga agggacaagt tgtaaagggtg 180
 ggagcacaa agggaaacca acaaaaaatg aagacctggt gggacaggga cagagtgact 240
 ggatgctgga gagacccaaa gctgcaaagg aaaggagcaa ggggaacaat accccaccct 300
 ctccctccc acctcccacc tcccacctcc attcttctcc agtggtgccg cccattgggc 360
 aaaccagcc agaagccagg aagcatgaga gttcagctga tgcagcccat acagatcaga 420
 ctctggact tcagagtggg ggagggtgag agggatgaag tctggaggca ccaattggga 480
 aggccatcca gaatgctcct attctgtttg ggagctggg atgggaatgt cccttctga 540
 ggggtattta tggaataaat caaatcaaat cacagaaatc aaatcacaga aatcaaagct 600
 ggagattctc tctccctcta cttgctggca gccaggatgt gggctcatga cctaaactca 660
 gtcattcaga aattcccccg gggaatgcag tcttacagga gtagctcaag gccaggcagt 720
 ggctcacacc t 731

<210> 22
 <211> 462
 <212> DNA

<213> Homo sapiens

<400> 22

```

cccatctgtc tgaatgcctc ctgtagtggg ggactcactc cctaatgaat caatccctct 60
tgtottttga aaggtcttcc aactgaactg gactccaaca tccagtgaag ctctccact 120
catcctttta gctggaccct ctggggacca agacagcaga ccagctgcct cttctacagg 180
gcagccctcc aaatggctgg ggccactgtc ttctctgcac tagaagacct ttctatggta 240
gtatccttcc acataagcta tgacttctat tcccagaaa gcctgatttg tctcctctaa 300
atgcacttcc acttatctgt gaccctctta caatgaaatc agagagagat aaccctgatc 360
ttctaactca gagcaagcaa gctcccaggt cttcagaggg cctgcagggc acacagatga 420
cagcggatga ccagagggca catgccttgt ctaaagggga tg 462

```

<210> 23

<211> 692

<212> DNA

<213> Homo sapiens

<400> 23

```

tttcaccact atgtagccta aagttattcc gtcattcatg actatcctgt ctaaagagtc 60
tgaagatctt tatttggttag ctatggcttc agctagtcca tttgctaagt tacctagagt 120
ggttgacaga tttctaatta tacgttcatg agaggttact cccactatt gcaagagact 180
tctgccaaac ataggccaaa attcatctcc ttggtttgca ggtacagttt gtctaaccct 240
ggaaaataat ttcaatgaac tacttcagcg ttcagaaaaca ttggagttat aaatagaaag 300
aggaagagcc acataaccta atagacaatt acctctcata tgccagtggg caacacattc 360
ataagcccat gtgtgcttga tccagggacc acacagggtc cctgatggat tctgaaattt 420
aaggctttgg attactggtg acagagacat gttaaagtag atgtcttcag tcttgagtag 480
agtgtaatca gtctgatttc tttttttttt taatgagaca aacatcaggt aaagaccttg 540
acaagaagga agagaaatcc cgagattcta taatcataat aatcgaattg taattgctag 600
tttaagtagt cttcaaaaaa tacatctcat tcctgacagg ataaaacaag ttttataaaa 660
tatattatat tctgggttca ctagggaac ac 692

```

<210> 24

<211> 669

<212> DNA

<213> Homo sapiens

<400> 24

```

ccttcctcat ctttgctgct ctctgctgac aatttaaaaa cccgacatgt gttaactctc 60
tccttgtctt ccaaccacc cacttatcac ctctgtgcca tgctcccagg tggcaagcag 120
agaggactgt ggtttgatga gttcattcat gccgtggctt taattactga taagagcttg 180
attatacaca ttctcaaagg cattggaaaag ttaaaagaaa gtccttttag gtagcagtcc 240

```

00100US1.ST25

atgacaaatg cagttcatga aatctgtgtc cttttcattc ctttctgagt aattcctctc 300
 tgtctctatc aaagccttgg atactccatg gtttactagg cagaaactta tccatccaac 360
 acagccacat ggatacagct ttgtgctttt agacaataac cacttgagaa aacctgacct 420
 tttcccccac ttttcattca gtttctgtcc tgctgaaaac aagaggacat cctgccacat 480
 tgtcatctgc tctgccttac tcttgagaag tctagttggg aaaacaggcc ctataaagag 540
 agacactgca atgccatggg gtgaggacaa taaaagtgat ggcagcagag cactggagag 600
 cagaggtggg gtcaccaact gcccaaatgg cactgtcccc tcagaactct tgcatttgct 660
 ttttaacgca 669

<210> 25
 <211> 654
 <212> DNA
 <213> Homo sapiens

<400> 25
 aatttatgac attatgacag ttgtgcatta aagataacat tccaaagaga aatgggcatg 60
 ggcataatatt taccactccc aaggaaatag ctaataaagt aatagagtac agattaaaat 120
 aataaaatcc aaatttaatc catcacattg acaatgatta aaattaaatt taaagcagtg 180
 ttgggaagaa tacagtgagc tgggtgtccat acacactgtg atgagagtgt agaaatctta 240
 cagtcttacc agaaagcaaa tgtatcaaac actttcaaaa tgttcatact tctaaccta 300
 gaaattccac ttttaagaat ttctcctaag aatatacttt tgtttaaaaa tatttacata 360
 caaagatggt gatttttagta ttattttgaa agcaaaataa cccacagaat ctcaagtata 420
 tgatccaaac aatggaatat cttatagcca ttaatttttag agatgaatat ttaataattt 480
 aggaaaatac ctatgatact ttaaatttta aaaagttaca tagcagaaga ggccatattt 540
 caatttttgc cttggaaaaa tatggtatca ctacagaaat gttgtagtgt tatcgctgac 600
 aacactagtt atctaggata aagggatatt ctcatittca tttcaccttt agta 654

<210> 26
 <211> 687
 <212> DNA
 <213> Homo sapiens

<400> 26
 ccaatatttg atcttttcta tctttaaaaa tggcagtttc atgtgtcttg atctaaaatc 60
 ttaaaatcaa tctttcaatt ggataagagg cagggaaatt agcttggaag gtaaatctat 120
 tatccagagg caaaatttca tgggctttga taaaggtgga tatttttcga taaggaggaa 180
 agagtaaatt ttactaacat actttggctt ttgttcagtt ttcttaacct ctattttcgc 240
 tttattatctt atttttttgt tttactcttg ggaaagcaaa ttatttggtt tctcacatct 300
 tttggggtcc aattttgatg attctgatct tttttagttg cttgacctgt agaccctcta 360
 cagaacattg cagggcctct tctcagagga gcagcggtga tgagcttagt ttcctaggct 420

00100US1.ST25

gggactgttg cgctggactt gacaggtgaa ctgaaaattg cagggataag tacacctatt 480
 gagaacaaac atcccatctc tttatcaaag ctcttcattg gctttggaaa actgctgtag 540
 gcctaaggaa actaaacttt ctagggatat tctagggttt aaacatatga gaaagagaaa 600
 gacgtcggtt cttatttaag agagtttatg agaccttata cttgaaatag tcaaatttat 660
 aaatgacata aggctgtatg ttagtatt 687

<210> 27
 <211> 622
 <212> DNA
 <213> Homo sapiens

<400> 27
 ataaaatata gatctgattg tgtcactctc ctgcttaata tttgtagttg accctcccac 60
 tgcctctcatg aaagttcata atccttactg tgggtgtaaa tgccctttta tgatctgtcc 120
 cttgcccatt tgtgtacact catcttgtgc tactctcttt ctccatcaat atgctccacc 180
 atactgtcat ctttctgctt atttttttta aaaaagtatg gaacatctct tcccccttat 240
 gtgtcttatg caacctgtca gacaaaacca catgttatat tttctcaaca cacaatttta 300
 tttcaggctc ctgtgccctt taaaaatcta ctaatctttc tgtctggagt gttctttctt 360
 ctctggcca aattctaata atttgtcaag agtgcaacag catcatttct tctgtgactc 420
 aattctccaa gcatcgtatc ctctgtgttc ctatagcact acattggatc ggtccataac 480
 aattctgtca gtgtattata agaacttatt tacagggttt gtctcttcta ctatggcgtg 540
 agccttttag tcatatgaat tgtgattttg tatatttagc gcctaccatg gtgcttaatt 600
 cgtggtaggt gctcggtaaa tg 622

<210> 28
 <211> 684
 <212> DNA
 <213> Homo sapiens

<400> 28
 ctattggttt aataaattat ggtataatca aataatgaaa ctctatgcat ttgttaaagt 60
 aacttttcaa aagaatatct tgtaacatag aataacagat cctagtgcac taccactct 120
 ttgggcttta tcgcttttcc accatcatta tctgcatcac tgccctgcagg ttttctacac 180
 ggccagggtt ggtctctgcc tgcataatag tcaagtcaaa agaggcagga aattaacacc 240
 ctctggaggc agcctttgag gaatgatcca tgggaggtgg agtataaata cctcagctct 300
 gtttcctcta gagatataac taaggaatgg gttttacatt gtttctcaga gtttcctcaa 360
 ggttttaaac ttcaatcacc cacagggtga gtgggcttta tcatagtata catcctttgt 420
 ggcttccctt cttctctgtc tcaattctcc attccaaact aggatttatt tcttttccct 480
 aaaacaaaac aaaatgttta acctgaaacc cttacaaaac acgtaaaatt tatatttaaa 540

00100US1.ST25

aaatctaaat atttgaggag agaacgaaac ctaagtatat gccaggtat aacacgattg 600
 gtggagatag ctttaaaaaa gttcctgaaa aatttagttt ttaaaagggg accctagtag 660
 aaggtgactt aactgcctaa tttc 684

<210> 29
 <211> 731
 <212> DNA
 <213> Homo sapiens

<400> 29
 ctggcttctg agagcctcct ggtaggaag gaagttgttc tctttccact gcaagcttag 60
 aaagccttcc aagtctcttc cttctgcagc ataaagagac aataactcag aggaaggtat 120
 cccagaggat ttccagacag ctgcacagat ttaagtgcag aaatctgagc agaggtatag 180
 tcctggcatt tacatgaaca cctttcagta gcaggaagaa taaatggaaa gagagctaca 240
 gaaataccag gggcgaagtc ttcattctgaa agtccaatct ttgatcaaga gctggtagga 300
 agtctgagaa tttgtatcag cagtgttctt aggtgtctct gtctgagtaa ttgggatcag 360
 agcaacagct gatattcatg ttacctgtgt ccaggtctcc ttctaagggc ttctgggaca 420
 cctgctcgtg tcagtcttca cagcaatcac atgaggtatg ttctgttggt gtctccttgt 480
 gcggatgaag aacttaggca cagagaaaac tggccacagg tgtacagctg gggaggccag 540
 agccagaatt cagacctggg gtgtcttggc tgatgtgagc tagtgtgggc cagcatggga 600
 cacagaggga ggattagctg gagaagcagg acagagggca agagagacga gatctccgac 660
 agtgctgggt cagagacact ttctgagcc atgattaaac ctgattatgg gacatgtttt 720
 agcctgtcag a 731

<210> 30
 <211> 642
 <212> DNA
 <213> Homo sapiens

<400> 30
 acagtgagca gagatggagt cacacctttt cacaaaattt aacaatcatc atcgatatgc 60
 acagccttca tgtgtagtgt atgtcccag ctacagctgt agttaccaa tctcaaagca 120
 agtaaacagc aagattccac actagctctt aactggccaa gctatatttc tataactaga 180
 attgctattt gtggatttcc ataagttata ataacacgat aagaccatt tatccatgta 240
 ttctagtac tttttcttcc tatagcaaaa agaaaaatac atctttcacc atttacaagt 300
 acaaatttca aggagaaatt ttaaaaggag agtaacaaac tgtcctgagt tgcagcaaga 360
 ctctgagag ttccatttcc tgggccctct gctgcctgtt tttggcattg aaccaggaa 420
 tcttttctaa agcacacaga aatcttgcaa aagaggcoat ttctagttag gcttttgtcc 480
 aactgtctag ttaaataaat taaattctta gattacaaaa tgtgttcaa aggtttaaca 540
 aattgaaatg tccttaagta tttcaaataa attaaggaag aattccatt cccatagtct 600

tctactttcc tcttccacac ctatgatgaa tgtcctgaaa ag 642

<210> 31
 <211> 592
 <212> DNA
 <213> Homo sapiens

<400> 31
 cccttttttc tgctttcagt ttgatttgat tacaccttac aggcttggtg tgataagttt 60
 aaaacatatt gaaggtttat gtacttataa aaacctcatc attccctaaa gaaaaaaaaat 120
 ctcaatttgg ttagtgtca ttgtagtctt gctttctaca tcttactaat gtctcattta 180
 tttattcatt ttgctctgtc acatttagaa tgattttgat gggcaaaaat catggtagtt 240
 acaaacagcc ctttaaaact attgttatac tttgttcagt ggattctggt agaggcttta 300
 aggtaattat ttctttaaaag cattgtgtaa atatacctcc tactgtagtg cccttgggaa 360
 caggcaaaat tcagaactgg cctgctagca gtcttaccag ggtataaaa gtaagattat 420
 tatatataaa acagcattaa ctcaatgcgt ggtgtgttgc agctggcaaa caacctcgct 480
 cccaagctg ctaaattcgt ggtcttatga atgtctccat tgctgtgttt gctgtaacaa 540
 gaagtgggag ggtgttcccc agtagccttg actgtttacc aatgcacact cc 592

<210> 32
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 32
 ttatttgggtg ttaatttcat aggcctcaaag gtctaagggtg cccccctggt gcggttgcct 60
 gtggttctct ttgctctgt ctgccctctt gggcccaata cctagtattg tgcttaggat 120
 tcacaaacgc aacaaatact tactgagcac ctactctgtg ccagggtgctg tgctatatgc 180
 tgagaaaaca atgttaaaca agatggataa ggttttcttc cttatggtgt ccatagtcta 240
 gtggcaaaga caggtaataa tgactcagtg tattctacta aggacaagca tatcgtgcta 300
 agaaaacctg tgtgggaatg ggtcagggaa ggtatccttg gagtagcccc gtttgaactg 360
 ggatctgaag actgagagtt atctaagtgg ggagagcatt gcaggcaggg ggatcagcat 420
 gtgcaagggt tctcagaaag gagggagaac aatgtgtaag aaatatcact gtagttgcaa 480
 ccag 485

<210> 33
 <211> 695
 <212> DNA
 <213> Homo sapiens

<400> 33
 tcattattat aagaattata agaattctga aatattagcc ttaaaataac caagttaata 60
 aagcttaaac tttttatgga attatccatt tctgttttga aaaatactga actcttttca 120

00100US1.ST25

aatactattg cttgttact taacaatgat tacttgaaca tagttcagct aaagctttta 180
tgatattcac taatctagca tttattttcg cattgctttc caccatcact aaagtaatta 240
ctacatgttc accaactaat tattctgatg gtgcattaag aattgatctt taccttaata 300
ttttatggta tcaagtgttt ttgcattcat caagaatatt ccattttgct tatattttta 360
tgatgagctc tagaatatca tcactaacat atctagcaaa ttataaatat gtcatttttt 420
aggtaaaata ttttaagagta tgtagtgcta tatatttagt tatttttaaat caaataactta 480
atgtttatac tttttaattg atgtacaatt ttcaattctt tagaatgcgc ttatgaaata 540
attgccctta ttatagtttt ataacaactt taatatatct tctgtatcta tagcagatga 600
tttataaaaa tgcttttctt tattaataac tgtctctatc tcaagttctt catagtgagc 660
tattttttct ttttgtattc ctgtagagat acata 695

<210> 34
<211> 655
<212> DNA
<213> Homo sapiens

<400> 34
aggcagtaat tccagtaatg tgatgaagta gcaagagata agtaagtcca ggtcagtga 60
gacttcgtgg ggctgacata tgaactgagg aaatgccac ttttggactt tcagttaaga 120
caaaaataaa cttacctctt ttttttttcc caggatatctg ttactttccc tattttgcaa 180
tacttaatgg atacatacaa tctgtcaact cttctctctg gacctgcgca tacactgctc 240
catctgcctg aaacaatctt tccctgggtca accgcctacc cactgccacc ttggagaaca 300
gctactcata gtcaccctca gattatatcg ttttctcacc catctcatcc tcttccttcc 360
cgtttcacca cctcccttca accttggtgg gctttgccc tctgtctgct tgacaggaca 420
cccctattgt tacctttgac tggactatta gatgacatct cagttactta ccttttatgt 480
gctagaatta atttcttagc tggagttgtc cccatgacct gaagetgagt gctgctcta 540
ccatgcaaga agctctattg ccgaggccta ggctgtttt gggggcttct ctagccaatg 600
tgcaatgtcc cattcctagt tgcattctga aatataacat ctgagttcac agtat 655

<210> 35
<211> 506
<212> DNA
<213> Homo sapiens

<400> 35
tttcgaaaaa acgtatatga aagattttaa atatgagtta tgatgtcttt ttttatccca 60
aatctgcttt aattatcatc ctatgagaac atttttgac atgcatgaac atacaagtgt 120
tctatgtacc cttccacagg aactattaga ggttaagcat cattcagcca aaaatgacta 180
gacaaaactt aatgagagga ctgatgtgaa catttaataa tatatcaaga tagatctaag 240

00100US1.ST25

gttaaaaatt attgagaata aaattggaag aacaatgtat caacgttatg ctattcaaaa 300
 ctagaaataa tgcattgtaa caatgggaga agaagggaag gtaaaaaaga caattgtaaa 360
 agcacgttat tggatagcaa atgtatggga agtaaagtac acacattaaa cttggcaaac 420
 cagcagataa gaagttacat aagaatatag atggctaag acatttatac gtataaatag 480
 gccttaaaac aaatattaaa accttt 506

<210> 36
 <211> 645
 <212> DNA
 <213> Homo sapiens

<400> 36
 ggcgcgcag gtcagggaac cgtggtctaa gtcccagctt tattcttagt tggaggagtg 60
 gccttaggta tgtcacaggg ccccttaggc cttttggttg tcgttttcat aaaaggcagc 120
 ttgtcttgct gctgacaatc atctttgaga gtgtagact taaatgagat cctgcagtag 180
 ttttcaccct ccacaggtag caaatcttt actctaaaca aattgtactt gattccttga 240
 tgctaaaaca aaagaaaaac ctggaatttt attactaaa acatattcta taagccctca 300
 tgtatatttt ttacttttct tggagccct cagtaagaaa aacaaaacag cttttaatac 360
 aatgttttca caatggcaaa gttcaaacac agacaaaggt agaggcaatg gtatgataaa 420
 gcccaggca ttcattcacc agattcaata attaccaatt cataatcaac ccaatttcag 480
 ctctccacct cacacctcac tttttaaaag acagatcctc cctcattaga ttagttcatt 540
 cacaaatatt ttatatgatc ttgaaaatat aagtgtcctt ttaatcattg tgatatcaaa 600
 ttcaaaatta acattaattc tcaaataaat agggctattt tgatg 645

<210> 37
 <211> 563
 <212> DNA
 <213> Homo sapiens

<400> 37
 tttgaaagta catgtataac taatctacat ctacatcaa ataactacca cttcttcctt 60
 cctgtttata tcattactgc cttttatttc atttatccac atgctataat cactcaatac 120
 tttgttacta ttattgtaaa cagttatctt tcagatcagt taagaaaaat aaaacttaat 180
 tttaccttaa tatagtactt ttctaagtct cttccttttt tatgcagttc tttttgacat 240
 ttctcatagg gcaggctcagc tggcaatgaa ttattccagt tttgtttgtc agaaaatatc 300
 cttatttctt tgaatttgaa ggataatttt gctgaatgca gaataatagt ttggtagctt 360
 ttttggtgca acacttcatt tttctcctt tctttgtgtt tgcattggtt ctgaagagaa 420
 agataatgta attcttatcc tttttcctct atggataagg tgttggtctt tccccctctc 480
 tagcttcttt caagattttc tcttctcttt ggttttttgc agtttaataa tgatatgcct 540
 ggggtggagat ttggatttat tat 563

<210> 38
 <211> 604
 <212> DNA
 <213> Homo sapiens

<400> 38
 acttctaact gctggcttta atttaattta atttaattac agcattttcc acacatgccc 60
 acaggctctt ggtaatagtt gcatttttaa taaatctaata atataataat gactttgttt 120
 ttaattttcc actgagagtt ggatcctgag ttgaacacag agctccagac aggggcgtct 180
 ggttcactcc atgtgattgg atttcaggga accaaggggc tcctaattgg aaaatagctg 240
 tgctttcacc ccctatcccc acacacctgt gtttaatgtc ctcagcaagc atcccatagg 300
 acatgaaatg accgcttggt tcagtcaaaa tgatcaaacc agttgagcag gcattcctca 360
 ggctggactg tgaaaggaaa atggaggtaa gcgagcaatg cctggccaag accattatac 420
 aaagagactc tatggacagc actctggtgg tggcctttac ggagtgaacc actgctctct 480
 gcctttatcc acaagtcact gggccaactt agaactgtaa tcaaacaatag ttcaacccaa 540
 ggatgaattt tatgactact gatttctcct ttgcaaagac cgtggttgat attcatcggt 600
 aggc 604

<210> 39
 <211> 687
 <212> DNA
 <213> Homo sapiens

<400> 39
 ctcgagcagt aacctgtgct tctacaatta tgacacccac tccagggata gtcactgcca 60
 aagggtagaa ctgctggggg ctcatcgac tcacacagac taagagtgtg gcatctccca 120
 gttatgcggg catcaggga acatggggag aacagtggca ggcacataag gccaccccca 180
 ggtacaatgt ccagtgcagt tcacgggtag gtaaactctac tctgtgtccc cacagacca 240
 tagactccca gggggcacaa agtcaatcag ggcctgacct tggtagtgc atgtgttatg 300
 ttgcaaagg ctgtgacagg taccatccc acagtgggtg taccccaatg ttgctctatg 360
 cactgtggca cttgggctgg gactactaca tgttccccac tagccagccc catcataaac 420
 gctatgggcc agccaggggt tgggcacacc atgtgtcttg cagcatcctt tgtccaaagc 480
 tgccatgttg cattccaggc atcagccatg ggaccccaa gtctccaacc atgtccagtt 540
 ctctgcagac acaagatgta tgtgccaagg caagccatcc gcagccctgc tggaagggca 600
 gtgcataatcc aatagttgga aacattgggtc acctagtgtg aggtgtgggc ccagtccaca 660
 atgcaattgg agtatgttaa cctctgg 687

<210> 40
 <211> 550
 <212> DNA

<213> Homo sapiens

<400> 40

```

aatttttttt cactacggaa actcgtttgc taatataaat gcagactttt tttaaaaaaa 60
agctttatatt ggaaacatga tgaaaaaatgt gatgtattaa tacttactga tactccaaga 120
aaaaaataat aaaatattta gaaagctcct cccatcattt cctttggcct ttttaactcta 180
ccagatcttt gagaatgcat attgttgctg gttaaccaga tgaaccaccc tttccttact 240
agttctgcaa gattcaatat cattcatagt ctccagcact cttagagtaat cattactagc 300
tgtaggaaaa attatggtat ttcttaaaaa ctttctttgt gacaagtga taaacccaaa 360
ggattaaaaa aaagatgttc cagtttggga aaaataatgc aatgaatact gcatctgatg 420
caccatttaa gaaagagaga aaataaaaaat gctcatttct aattgtcctc atttcagcag 480
cttcccaaatt attcttctat ttctttcttt ttaagtaatt accacatttt catatttgct 540
gaatcatgaa 550

```

<210> 41

<211> 617

<212> DNA

<213> Homo sapiens

<400> 41

```

cccagtgac agaagccatt tcaactgccag agactcttag cggccttcag ttctcttgag 60
ctggagccac tgggtcttgt atgaaagctc accaggacat ctcatgtgga cctcgggcat 120
ctgagccggg accatcctat tacaagtgcg gaaaccagat cattaatgca gagctgaatt 180
caaattgtta cttgctagct taggaaagaa tccttgga tccaacatat tgtctaaatg 240
gatcagttaa tcttactatg tgcatcttac ataccctttc attgtttggg cttaaataac 300
ttttctgctt tgtctggttt aatttcatcc aatgtggatc gctggaagaa tatgatgtat 360
gttttagaat agaaacagtt ctgagatgaa gttgagcaca atttcctggt ctagtgtcaa 420
ttaaatataa atatagcatt tgacataaaa tagctggccc gatataatta gagtacaagt 480
taagtgtcat ccccttagaa ttgggcattg actccgtaga attccccttt gtacaagggtg 540
agcaaagtga tattttgtta aaaataagta tctgactgcc aaaacggaca gaaagctctt 600
tgccatatgt gttttca 617

```

<210> 42

<211> 653

<212> DNA

<213> Homo sapiens

<400> 42

```

ctttttaatt ttgtttttgt agcagttggt tgtatccatg tgtgttggtg cccatatgta 60
ttgtttgggg tttggttatt ctctcaaaac caagttaccg taaaaagttt gaattttagt 120
atttctttat tgagtagtgg gaccgtctag actgtgtgct gactcttact aaagtcattt 180

```

00100US1.ST25

gtttttctta cccgtggaga ggtgtattct tgaacccttt aaacgggtct ctactttggc 240
 ctaagaccat attagaaaac ttttttgaag tcacttatta tatgccatat aattaaag 300
 ttatatggta tattctccca ttacatttta gccacaatgc cogtatatta aataagcaaa 360
 caaactatat gtggcaatta aaacttaaaa aaaaaagcct gaattggctc ttagaaatat 420
 ttaatcaagt agtatccact agaacttaac atttcatcct gtggatcatc acacacaaaa 480
 taccaacccc tgctgtcatt cagggctcta gcaggaacag gtagcatcaa ataggataat 540
 tgatgagagc ttaagaaagg aactatttac aaatatgtgg ccagattagg ggaaaccagt 600
 aaggttggga atgccgcca ggattctaac aagagtgaga atctatttct act 653

<210> 43
 <211> 642
 <212> DNA
 <213> Homo sapiens

<400> 43
 tccatgtaac attgatgagc acagttttct cttctgtagc aagcactcct ctgcctaatt 60
 catatgacta aaacagtgtc tctcaaacat atgggtctcag gaacccttta aaatcttaac 120
 aactagtaat gacccccaaa aggtttttta taatatgaat tttatatata aatattttat 180
 tggaagtcca cttttatgaa aataaccttt tttcaaaaat ttcataagaa aaaaatagta 240
 ttattttaca tttttgaggc atctttttta tgcttggttt aatagaagac aattgaatat 300
 tcatgtcaac ttctggattc gatctgtttc aatatgtgtc tttggttgaa atacatgaag 360
 gaaacttggg atcatcagac atatagttag aaaaggttg agtattttta cagccttttt 420
 ggacaactgt ggacattgtg ctttgatatt acaacaaaac tggagaagtg gtaggttcta 480
 aatgattagt tgcaacatgg aatctgaaac cacatcatga actatttgta atctggcata 540
 ttaagatcta tttatctatc ttgcactttg aatgggatcc tttgctcatg catctttttg 600
 taacatgaat catctcaaac acgttggttc attgagttat gc 642

<210> 44
 <211> 674
 <212> DNA
 <213> Homo sapiens

<400> 44
 aattaaatc cctgcagtca aattagactc tgcattgtctg gggatattta aaaggataat 60
 gtataggggt tgccatggta actcatcaag tggttaattct gtacctttct gagtgaaaac 120
 cttgaaagga gaagacaagc aatttgggga gataacagca ccagaaattg agttcatctg 180
 taacttaggc tctctgtgag tttgtttacc agctattcac catgtggatg aaaaacagta 240
 aaaagacaaa aaagattcac atttcaaggc tccctaaaat tgccaattcc actctatagc 300
 tgattctcag cacaggagga aatgggacta gaatgctggg agatgacact atcatcgaac 360
 agtgagctcc aaggagaagc ctaattgtta cttctcaatg gcagaaggcg ggtgcttccc 420

00100US1.ST25

ccggggcagg attctgttta atccttaggt tagagcccag cttcaacca gtgtcacagg 480
tcaattacca cctccaacc ctgaggggag acatgaacca tactcacgca ccggcgcatg 540
ctccctctc agcacctctt gtacattcag agctcctgca tgggatgccg agaactcaca 600
cccttcagg gctgctgaag atcatatgac tgatcatcaa ctttgatttt tgacccatct 660
gtcaacaacg acac 674

<210> 45
<211> 609
<212> DNA
<213> Homo sapiens

<400> 45
gcctaactga attataaccg cgagtttgca cagtggtag catagctgat gagatgcaag 60
caaaaaaaga gtattgctga cctaggacca tgaggaaaa ccaaatccaa attagtcaag 120
ttggaggaca tttgttgaaa actccacact tccatgaggt ctgtagcctt gaggctatca 180
gtgccgacac agaacattct gaatagtcca atgcctcttt ctgttaaaga ggagacgcct 240
cactctgccg ctcaatcttg gacttgtttg tgcacagagg tccttgctta tgtaaacctc 300
gcttttaact ataattcaca gagtcctttg aacacataaa gggaaagcca ctttcgctcc 360
tgttaaggat gtataagcac aaaaaatgaa cagtgaatta atcctagtgt tttatacatt 420
tttttttaaa aaaagaatct aagccagaat gaggttactg cctaggcaaa gaagaagaca 480
gtcatcaca ggtgagtgtg acacgttttt catatgtaca aattaagcag cctgaacaaa 540
aaggcactca aaaggtaaaa gaataccagt ccaccctct gatttgtcaa atcaaagttc 600
tgtcaactg 609

<210> 46
<211> 522
<212> DNA
<213> Homo sapiens

<400> 46
aaaaaaaaaa aaattcaggg gaaaaagca attaaaaaaa cataactata aaaataatac 60
aaattacaaa acaaccattt acatagcatt tacattatat tagttataag taatctagag 120
atgattaaag tgtacggagg aatgtgcata ggttatatgc caatactgcc tcattttata 180
tgagggactt gaacatagaa gggttttgga gtccacagag gtcctgaaac caatttcccc 240
ttcccatgcc tgggatgact gaattatata gcagcaaaaa tgaatatact caagctatat 300
gcatgagtct cataaatata atgctcacag aaaaaagcaa gttgcagaag ggtaaatacg 360
gttgatatat aaagggtgcta aacacagaac tatttaatga tatacggatg cagtaaaagt 420
ataagaaatg tatgcaaact tacttaaatt caggggtgtg gttacttga gtaaggcgaa 480
tgtttgaggat gtcagtaggt acctgacaaa tggcaactta ac 522

<210> 47
 <211> 681
 <212> DNA
 <213> Homo sapiens

<400> 47
 agctagggtg ggcaggagtg gtctctgaga ggtgacattt gagctgagac ctgaatgaca 60
 agagaccaat gtcagctctc tttaagaaag ttttcctttg ttttagtggc tctctccata 120
 ctcttatttt aaactcactt aacatcaata taaaagtgtc ctttgagca ggacactttt 180
 aggaggtctt gagcccctct cccaccagca ctcatctgtg tacaacaag ttgttgctag 240
 tgggtgttga gctcgttttt cccaagcttc accttggcat taccagatc tgttcaacct 300
 tgggcatctc ttcctcccag ctggatgctc acccaacttg ttctgcctca gtttctggag 360
 gagcctgact ctatttttgc cccccttgaa agaaagtaca ggactgggtt gaggcagctg 420
 ctcaactca ccagaggcct ccatacttg taggccacac tggctgccat caagagctgg 480
 cagtcctgag aaagcagaaa gcagatggtg aggtagaagg agcgagtgat atggaagggc 540
 acaaaacaga ggggtgaagag gccacacacc agtaggatgg tccggatgga cctggctcgg 600
 gctgtgttgc ctgtcctcat gaggttctcc tctggttga tcaggctcct gaccatcagt 660
 gaatagcaca ccaaagtgac c 681

<210> 48
 <211> 548
 <212> DNA
 <213> Homo sapiens

<400> 48
 ccagggggag gggggcacgg gctataaacg ctcgcccgca gcggcgccgg cagagagccg 60
 ccgagcccag cacagctgcc ctctggacc ctcggacccc agccgagccc ctctctgagt 120
 tccacaggcg cagcccccg gcggtcgggc ggaggggtcc ccggggcggt gccagggcgc 180
 aatcctggag ggcgcccggg aggaggaggt gcgcgcggcc atgcacaccg tggctacgtc 240
 cggacceaac gcgtcctggg gggcaccggc caacgcctcc ggctgcccg gctgtggcgc 300
 caacgcctcg gacggcccag tcccttcgcc gcgggcccgtg gacgcctggc tcgtgccgct 360
 ctctctcgcg gcgtgatgc tgctgggcct ggtggggaac tcgctggtca tctacgtcat 420
 ctgccgccac aagccgatgc ggaccgtgac caacttctac atcggtgagt gcgggccgct 480
 gcgcgcacc tgetgccgtc ccgggggggt ccgagggccg agcggcctgg ggcgccctct 540
 cgcgacgc 548

<210> 49
 <211> 695
 <212> DNA
 <213> Homo sapiens

<400> 49

00100US1.ST25

```

aagtcgcctg tctttgatct ggtagccagg ctgtgatggc tagctttagg atattttccc 60
tatattttctc ttgctgtcag gttaccctt ggtatacctg taattgattt cccagtttag 120
agagtttaga tgtggacagg ggaagtacaa actacagctt agtgaagat aaaccaaggg 180
tgtaattatc aagttgtact tgaacagaaa tattacccaa taggatttcc aatgaacag 240
gatggcaaag agttctgggg tgtggaagtc agagtaggtg ccaaaggatc tagatcaaag 300
gggttggtag atgagcaggg atgggtcaga gaaatctagg actgttaaag caagcatgac 360
ccaggccatg ttctgaggtt ggtaaagtga attatagaag gtgagaccaa atgtgagatt 420
gtgagatttt aaccaccca aagagggagt atgtgcctca ggcaaagaaa atgggaaaaa 480
aaaaacatgg tatatggcat atttgaggag caaagataag ttcattgtca ctagggcaga 540
gcaagggata agtgaatggg gtgagacaag attggagagg ttaacagtgg ccaataacaa 600
gtgataaaaa taattttcaa atgagagcag ccagcactt ataaagtggg taatgtgcac 660
caagtactgc ttttaagttat cctgcagtat tattg 695

```

```

<210> 50
<211> 586
<212> DNA
<213> Homo sapiens

```

```

<400> 50
gcctccaacc gatatttctg tctgttgctc tgaccaggta ctgggccatc accaatgccc 60
tgtagtatag taaatgggcc atctcaaatt gtatctctat ccagtgctc ttctcctaga 120
cctcttgac cacctactcc acatgtaaga ccttctacat tttggttgtg ttgttcatca 180
tcttcacaca ttgcccaaca agaacatcca gaagccatca tcacagcacc actgccaggg 240
tcatcacagc tcaactcttct tcctcaacct cagcctccat gagaggcaaa ggcgcttaac 300
tggtctcct ctgcttggtt atcacatgaa aatcaagcat gcttatagtg tcctagtaca 360
acaggaaatt tactttcaaa caaggaaagc cacagaaacc ctggggatca ttttaggggc 420
ttttatcatc tgctggctgc ctctctttat tgtttctctg ccagccaaga taccaccata 480
ttaagacatc ttcattctgc tgagcttttt ttttttttct tttttgatac caagtctcac 540
tcttgctctc caggctagaa tgcaatggta caatctcage tcaactg 586

```

```

<210> 51
<211> 234
<212> DNA
<213> Homo sapiens

```

```

<400> 51
caggcgctc aactgttcca caaaccaagc ctgaaaccag aactccaact tctagtctga 60
aaagcaaagt ggcacctgc aaacaccctg tggccccaag tagtctcacc caacctggg 120
gaagaagcag aattcaagct gtaactgcct gttggagaga gccaaccctc ggcctctgtc 180
ctcgaaaggc agcaccaaag ttttccaagt ggaatcaaat gtgcaggag gatc 234

```

<210> 52
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 52
 ctgtacctgt cacagttatc aaaaatttat tcattcagaa gtctttgttg aacacctgtt 60
 acgtgtactg agcattgtcc taggtatttg agatacatca gtgaacagag gatccttaac 120
 agacaatata cataataagt tatgtaatag cttacaaagt gacagtacct ttgggaaaaa 180
 ggaaagggtat tataggataa agatgatcaa tgaacaggaa gtttgagttt ttaaattgag 240
 tggctctgggt aaggaagatc atacctgaac caagacacaa aggaggttag ggaatgatga 300
 gccctgca 308

<210> 53
 <211> 584
 <212> DNA
 <213> Homo sapiens

<400> 53
 tagcagagca ggtgctagtg atatttgagc aacagggtgct gaatgaatgc atgaacaaat 60
 gcatgaatgt ggaaatgaaa ggggatgcag atggagatga tgcagatgga gatgatgatg 120
 cagatggaga tgatgcagat ggagatgatg cagatggaga gcagtggcca tgcagagtct 180
 ttgcagacct tggcttggct tcaggctgtg ggggctctgc aagccaaggg tttgagttcc 240
 acctccagtg cttgccagca atgccacctt gggtagacct tatcttgcta cctggaaagt 300
 ggggatgctg gcagcccctc cctcctggca tcaactgacac tgcattgtca ggggtgtgatc 360
 cctttgggta caggcggggg tggtagacct ccaggtggg caggtccagt ttggatgaaa 420
 ggccaaggac gattcatagg agagcacagg agtccttgct tagccccagc aattccacag 480
 aacctgctgt gaactgctgg ctgctgcccg taacttttcc ctgtccctat ttccactcct 540
 tggaggccgc aagaacaact gctggctggc cttggccact gcct 584

<210> 54
 <211> 560
 <212> DNA
 <213> Homo sapiens

<400> 54
 agtctttttc tttaggaac tttgtgttg cttcactata tagttgttgt ttcaacaatt 60
 ttgtgttgtt tcacagtttc actgtgacag tttgatgtta ggttgattct ttttcctcct 120
 ctgtataaaa gattatgtca ccagaatctt ctttcattac tttggatagg acctaaagga 180
 cctctcaat ctgaaaatct atgctatttg ttatcacaga gcagttttct gctgtcattt 240
 ctttgattgt tactttttcta tttattcctt tttctctttc taaaatgcca ttatttgtat 300
 attggagtca tagatctgag atctgtgaat ttgctattca tgtctcatat ctttttgcaa 360

atggtttcca tgtctccaag tctttgttct ctattgtgag atattatttg tattgttttg 420
 tccagaatat taatttagtt ctattcattg actattcttt ggttttgctg ttgaattttt 480
 aaattcagga atagtgtgtt tttctttcag attatttttt tctgtgacct aattgcatct 540
 tcttacgggg tcttattata 560

<210> 55
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 55
 gccacaggaa gccaaaagat tggacatcca tgctcccctc ctctcccttc ccgactgcca 60
 tctcttgatg gcggccagtg tggcctacaa gatatggagg cctctgggga gtgtgagcaa 120
 ctgcctaaac cactcctgt actttctttc aaggggggca aaatttgagt caggctcctc 180
 cagaaactga ggcagaacaa gttgggtgag catccagctg ggaggaagag atgc 234

<210> 56
 <211> 585
 <212> DNA
 <213> Homo sapiens

<400> 56
 tccttgggtca ttttgggtgtg ctattcactg atggtcagga gcctgatcaa gccagaggag 60
 taacctcatg aggtacaggc aacacagccc gagccaggtc catccgggac catcctactg 120
 gtgtgtggcc tcttcaacct ctgttttgtg ccttccata tctctgctc cttctacctc 180
 accatctgct ttctgctttc tcaggactgc cagctcttga tggcagccag tgtggcctac 240
 aagatatgga ggctcttgtt gagtgtgagc agctgcctca acccagtcct gtactttctt 300
 tcaagggggg caaaaataga gtcaggctcc tccagaaact gaggcagaac aagtgggtg 360
 agcatccagc tgggaggaag agatgccag ggttgaacag atctgggtaa tgccaagggtg 420
 aagcttgagg aaaacgagct ccaacaccac tagcaacaac ttgtttgtac acagatgagt 480
 gctggtggga gaggggctca agacctcta aaagtgtcct gctgcaaagg acacttttat 540
 attgatgtta agtgagtta aaataagagt atggagagag cact 585

<210> 57
 <211> 660
 <212> DNA
 <213> Homo sapiens

<400> 57
 gtcacactga attagggacc acccttgtaa ctccatttta actcgattgt ctctgtaaag 60
 gccagctc caagtacagt cacattctga ggtactgagg gtaggactc caatgtatct 120
 ttttgagggg acacaattta accctaatag accacaatta aaatggaatg caataataaa 180
 aactaacttt tattgagcat tcgtagtctg agtttggcat tgctcaagag tgccttacat 240

00100US1.ST25

taattaatgt aatcttcaca atcctatgaa ctacagtatca ttattacca catcttacia 300
 atgagtgggt ggagtcctatg gcaagagtaa cttgccaag gtcacgtgc tggtaagatc 360
 agaaccagac tcaaaaacag tagtctaatt ccacagcaga ttccgtcaac aactattcta 420
 cacagtctct actttatggg gttcaacata gagactatct tgatgtctgc ggtagctgtg 480
 agaatgtggc tcagagactt ccatctatgg ggaactcaat caaccaaagg cccagctcc 540
 tgcactttga gacctgtcac tatgttatca ccgagccac atttcccatg ggctgcttcc 600
 agccaatgcc caaacaatgg caggagact aaggcatcct gttcctgggg agatgtggga 660

<210> 58
 <211> 643
 <212> DNA
 <213> Homo sapiens

<400> 58
 attctgtcct cttctctctg cctgcggccc ccatctcctg agcccagcga gctcagtgtc 60
 agttcactgt ttgctcctcc ttgctgcaga cacagaagat ttgggagcgt tctgcccag 120
 gttggaagg atacctgga cagtgggcgg cctctttgct cccacttgc taggagtaaa 180
 gccgtttaaa aagacacctg agcctctccg gggtcctgct cctcactcaa cccacagta 240
 gatctgggtg ggaggttag ggctcagtga atctgcaggt gcagcatcgt gtcctcagt 300
 tcttcccccc tgcttcacc cgggtgctgac agctgcacgg tccacccac gcctgccttt 360
 ccatcgttcc tcatcagccc tgtgatcttt cctgtggccc tgctgtgctg gtgcctgtg 420
 aggtcctgtg gacacaagag actgcacggg ccacacccc agctgggtga gtcctctccc 480
 tcttgggtac tctggacagt aaagaaagat ggacacgtgg gctccgtgga gcatgaggta 540
 gtccaggacc tcggcgcca caggctcctgc ctccctgctt ctctgcccct cctcccttt 600
 gggctctctg tccacctcgg taaacgcttc gttccacccc etc 643

<210> 59
 <211> 670
 <212> DNA
 <213> Homo sapiens

<400> 59
 aatattgtctt aatattctag tagggtaaat tctttattgc tttttcttt ctagaatttt 60
 tcttatatta tttttcatat aaattttaga ataagtctgg tttgggggt catatagcaa 120
 taggtaaat gattaataaa gtgatttggg gaaggtttca caatacattt atgaatcaac 180
 ttccggagag tggttatgct tatgtttagt cattatattt taaaatgtga catatctttc 240
 catttgtttt aagtccttga tcaagcatta gttgcctcct ctgagaatct ataattaaat 300
 tcaagataaa ataatttttt ccatttattg acccattttt agcttacaat ttgttttcta 360
 cccttgtaag tattatgttt ggtaaattat tttttattaa tatctccctt acagatatta 420

00100US1.ST25

tacgccataa ggaaaggagt cacagatttg gtaatagaga ctcaatacac gtttggttga 480
 atgatgaaag cattatgagg catatcttct tactatgttc acctataat cttaaagtta 540
 tcaagttatt aagtagagcc cattcacaag tccagatctt ttgattttta atcctgtatt 600
 tttccatatt ttcaatattt aataggggaa gtaacatgct aaaatgctat agttttgcaa 660
 ttttatatct 670

<210> 60
 <211> 662
 <212> DNA
 <213> Homo sapiens

<400> 60
 aaggaaaatg gaaactagat gaacgtgaca atataagact tccaaatcca cgtgggttcca 60
 tgaaaaatagg aaaaaccgaa tgccaaaggg caggccacag aaggaggaag accagcgcta 120
 tgagcaggat ggtcacgtac agcctgggtca gtggcatctt ccgggaccca caaaggatcc 180
 tgaccagcag gaccaggctg gaaccacaga gagccacaca taaaaaatc agcccccta 240
 ctatgatgaa atctgatgtt taacaccaa cagaatcagc accactaac aggaagtcac 300
 agaaactcca ctccaggacg ctccgcagca gagacagggc ccagagcatg acacacacga 360
 ccgctgacag gtgtaggggc gggggcggca gcgctaccag atgggccaca ggacgtacag 420
 gcagcgctcg gtgctcatgg cgcttagaaa gctcaggctt gcaaggtagg aaaacatcat 480
 cacagggctg aggatcttga agatgggatg gaggatattg atgaggctta acggaaaacg 540
 tataatgtgg cttctgagaa agaggaagtc ggccatggac aggttgaaga tgtagatgga 600
 gaaagcgttc ctgcgcatgc ggaagcccag gagccagagc acgactgcat ttcctgtcat 660
 cc 662

<210> 61
 <211> 603
 <212> DNA
 <213> Homo sapiens

<400> 61
 cacacacaca cacacacaca cacacacaca cacacgcag caccattta 60
 atgggttccc tgggggcagg gcatcagtc cactcactgc tgggcctcca gggcctgcca 120
 aaggggcaaa gtcacactca gacataaact cttggtttta gcaatccaat aaacagtcac 180
 gaaactaagt gaggaaagtt attagattga agggatttga gggaaagtcc catcaaaaag 240
 taaaacttga tcccacctcc acttcttga tgagttactt aatctctctg gcctcagttt 300
 tttcacctat aaaatagaaa ccatgagagg acctacctca ccaggctgtt cttaaagttaa 360
 atgagttaat tcctgtacaa gctgagaaca gcatctgata cagtatctaa taaagtcagt 420
 tattattact tttattatta ttatgtactt gggtatcatt attttcattc atcaattatt 480
 attctcttca cctctttgct gccacctgga gttcctggaa ccccttcacg gcgtacagca 540

gggagacagg ggagggcaga tgccatttgc acagccattg ggactaataa gccccagcac 600
ccc 603

<210> 62
<211> 427
<212> DNA
<213> Homo sapiens

<400> 62
taatgtggga ctaaaaaact attaaaaaat aatgacttca accttcccaa attaggatgg 60
aagaacataa acctaaatat tcaaggaaac aggagcaaac cctaaataga atacacccaa 120
atacattcaa tttctggaaa tgaaaaaaaa aaattaaaaa tcttgaaagc aaacagagga 180
aaaatggcac atttcttaca gaaaaacaat aatgtaaacc acagcagatt ttccatctga 240
aaccatgaag gttggaagga aacagataat atttttgaag tactgaaaga acagaactgt 300
gaactgtaaa ttcaataccc agcaataata ttcttcaggc actaaagtga catagaaaac 360
attgtctaata gaaagaatgc taaggtaatg tgttgctaac aaacttacct ttaaagaata 420
agttctc 427

<210> 63
<211> 550
<212> DNA
<213> Homo sapiens

<400> 63
acctctaact ttcttcacta atgtgttgat gtctgtcact gcttaacaag caaaatggca 60
tcagaaagag ggtgaacaaa taaaggata tttagggcta atgatgaatt cgaggtaaag 120
cacatcaatg tttccaccaa ggtttttgct tccagtgtgg tagggcaaaa agatgtgaac 180
tgaattattg gtactctcaa attaaatgta ttcattttat taattcattt agcaacagac 240
atacacaggt acatataccc atatccgtag tttcacttat aaagaaaaat taaatocacc 300
caactgtttt gttttctgca atatttttaa cttctgtgac tttttgtttt ttccattgct 360
ttgaatccac aataggtagg taggagaatt tgaagcacca ttgaaatgaa gtattctaga 420
aaagtatgca gaaagataaa gaaaatgcat ccatctctag aagtgcctac atctacttag 480
caagtgtgaa actcacaatg aggatttagc ctgttagtat ggcacagatt ataaatagga 540
gagtcgctgt 550

<210> 64
<211> 556
<212> DNA
<213> Homo sapiens

<400> 64
accttggcct cccaaagtgc ggggattaca ggcgtgagcc accgcgcccg gcctaatttt 60
gtatttctta ttctgtattc ttttccttaa aaaacctttt gcccaaattg tatcaacttc 120

aataccccaa cgctggaccc ctccctagat acagtcataa agcaaagac acgttagacc 180
acgtgctccg ctaagaacat agaacctctg gcctgggtga tacttggtgt ttctgaagaa 240
gcttttctctg ggggtggagga ggaggaggag gagggaggaag accctttgag ctttaaaatg 300
cccaggagcc atttcctgta atgggtggat gcaaagaagt aaatgatggg gtaatgccac 360
agttcatgtt catgagggcc acgggtggcct gaaggagacag taagaaagcc ctccgctcgg 420
cacaggatgg caggtggagc atacctctcg ccatgaactg cttgatgttg aggtggtagg 480
ggctgaagca gaccaccacg gccaccagca tcagcagcgt aagcaggcag cctcgccagt 540
ggcgctccttt cctgct 556

<210> 65
<211> 600
<212> DNA
<213> Homo sapiens

<400> 65
cataccact gagggagaat ggagaagagg gtgggggttct gcttgcaggg ccctttgcac 60
ttcaaatatt ttacaggga ggggatggca gatgcacct ctgccaaggg aagctttgag 120
ggccagcatc acatagccct gtggtgaatg agagctggca gggtgacagt ctgagaggaa 180
ggaaggatgg agctccgacc cctttgcttt ctgaaactcc tgctgagaga gttggctcca 240
cagccctggt agggctcggg tagctgctgt ggctgaatca gtctctgtt atcaccgct 300
cgggtgccatg aagtggaaaa gcagtctctg cctcctcgt tctccaata agccatcct 360
aatcaccctt atcatgtctc ttccacacct tgagaaaaaa tggcctcgca gcagacgttt 420
gaagtacccg ggactggaaa agtctttcaa atggcacctg atttggtac atgcctgcag 480
acaggtgaaa gttagtgcc ccatttcaca ggtgaggcca ctgaggttca gagaagtcaa 540
tcaatgatgt gatcatgctc acacatcca gcagtgacca aatatgtaac attcatacac 600

<210> 66
<211> 549
<212> DNA
<213> Homo sapiens

<400> 66
cctgccccca ccaccaatac tgggtgccac gtaagttgtc tagtgaactg aggaaatatt 60
ctctcatca actgccactc tcaagggcc aagtgtacca tttggaggct taggtattga 120
tctgccccac cggatcatc tggcacccat gcacacctc agggacctaa ggacaggccc 180
actctgcctg ccaactgtcat tactggtacg caaggactgg cctgcctagt gtctccatcc 240
acagcaaagc attgccacag cccctagtgt ttaagccact gaggagctca cagacaccac 300
tcacactgtt tacagcagga gaaatcctat ggggcctata atactgtgcc caccttgat 360
caaaacaaaa gtactctatg caactaacac tacagctata tctacaggaa aaagcctctc 420

cctacaaaag ccaatccaaa aacctaggag aagcaactgt cacaccaa atacagatac 480
 caacttaaga acataagaaa catgagaaaa caaggaaaca tggcattttc taaaggagca 540
 caataactc 549

<210> 67
 <211> 550
 <212> DNA
 <213> Homo sapiens

<400> 67
 agctgggatt tctgctaact gatgtccagt cggatatttg atatctcaa tgacatgaaa 60
 ctactactg ctacgaacc ataggaagac actggccagc ccatccactc atgcggtgct 120
 ggaacccttt ttttatttta aaatatttaa ttgacaaaaa ttgcgtctgt tcaaggtgcg 180
 atgtgatgct tcgatctaga tatatacagg tatattgatt accacagtca aattaactaa 240
 caaatctatc accacccatg attaccatca tgttgagggg atgaggcagt gaagacacta 300
 aagatctgct gtcttatcaa atttcaagtc aacaatacag tattattaac acagtcacca 360
 tgctgtgcat taggtcccca gaacatgtaa ctgaaggttt gtatcttttg accaacatct 420
 cccagctct gcatgagtgg atggtcagca ttttccaaac ccactctgaa gactttgcct 480
 ggttggtac atcaatatct cctgagaaaag tacaaaagtc caggcccagt cacagaaatt 540
 ctgatgcata 550

<210> 68
 <211> 605
 <212> DNA
 <213> Homo sapiens

<400> 68
 caaaatatac atgcatgtac atactatgaa atatgtatta tgtaattttt gtgattctat 60
 gtataagtta aatgctttta tatttgcatt tttaattgat actgcacaac ataaaaatga 120
 atgtgaaaat ttattgtggt aatttagatt tttaattttt ttacataaaa ggacatagaa 180
 tagcaaagga aaaacaaaac aaacaaactg aaagacgtaa caagttgaaa aatagatcac 240
 agataaagga aacattttat actttgatac acttaataga accttttgct tatattttga 300
 actagagccc cacactttca ttttgcacta gacctacaa attatataat caaccctgga 360
 cactgaatta agacaaaagc caatatttac aaaaatgggc accatagccc aagctattgc 420
 tttgaagcta cattagttcc tgtttccagc tgtgagcctg aactccattt taggaagtga 480
 gactggccag ggtttctgtg tagagtttg catttttatt ctctaggacc ctgcaagagt 540
 ctacagtaat tgtagactca aaaatgtcag agattgctgc ttgtatttat ataatgcccc 600
 atact 605

<210> 69
 <211> 669

<212> DNA
 <213> Homo sapiens

<400> 69
 tatatttccta tctaccacat ggaatcagaa ctgtcttgga gatttatgca tctgaacaat 60
 aatatttaga acatcatctc gtctttgaca ccactttgtt caacacaaaa tggctattca 120
 aactactctg gaacctgtc ttgtcaacca atgcaggaat cttagttaat gtattccata 180
 aacacacgca ggtttccctt aagcacagac tccatgtaag acaagtttca tactttttca 240
 ttgtgaaaga tgcaggtact attggatgga tctgaagagt tggcaaatg acaggaagat 300
 caggcaggct gcctgttttt aactttatga aatttttcat gttttattat ctatctactc 360
 agataaaatt aggtgggaca cttttttaat gcttccaata aataagaaaa atgtgcctgc 420
 agcatgaaaa atcctttgac tgccttgtgt tatttgcaac agatgaatct aatttgtatt 480
 cagacatcag tgctataact aactagagaa ataaaatgga tgtctatgat ctctcttcaa 540
 ttatttagta aggatgaagt gtcaattggc taaaagtaat aacaccatgg ctgtacttag 600
 tgttacacct attaggtaga aatatacaca catacacgca tatatacaac agattaataa 660
 caccagaag 669

<210> 70
 <211> 537
 <212> DNA
 <213> Homo sapiens

<400> 70
 tcctgaagtc agatagtagg agtcttctaa atttgttctc tttcagaagt attttggctt 60
 ttttattctt atgaattttc gtgtgaattt agaaacagct tgtggatttt aaaaggaaat 120
 gtctgcttgg atttgaatgg aattgcgttg catccagatc actttgagga aatttgtatc 180
 ttaattctat tgaattttcc aacaatagac atgatgtagc tctctgttca gctcttcttt 240
 gattttttaa atagacattt acagtttttg gcacagaatc tgtatatgtt ttgttagatt 300
 tatagctaag cattttatgt ttttgatgct gttttaaaat ttttaatttc aactggatc 360
 tgctgccata cagaaataaa acagaaatac agaaatacag ggtacaaaat aaacttgacc 420
 ttgtttcttt cactctagat agtattgctt attagttcta ctaagttttt ggtaagttct 480
 ttgagatttt tctccacaag caatcatgct aactaaaaat aaaaacaatt ttgtttt 537

<210> 71
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 71
 aaaaataaaa gttatggatc acagcagatc ataatagaga atagtccatc tctcctagaa 60
 aatttttaaa aataaatctt agaaactgca tgggaaatac tgtaaaaaca aaggttattg 120
 tcttcagcta tgaattagaa taaatttggc actagattat ggggtattcc cacaggaaag 180

00100US1.ST25

taccttactg attttcctc tctccttctt gatacattat ggttgaaccc actgttatgc 240
aacacctgct tactttggcc ttaagggcca tagtgacaaa agagaaacct ttaaagaagt 300
catagtaa at gtttagggaaa gggattttca atgcatggat atatttggca aggtaaacaa 360
aaagttgcct gatagcaagg gaggaggcag gccactgtga atagcaactt atactagtca 420
atattgaaaa gtaaaagcag ttgaatgggt tcaaagtata taagaatata aactgattgc 480
ttataaaatg ttttttaagt agagactgca cttaaatgtg agatgaggcg gatctataca 540
ttaattttat atacgcaa at gatcctactt acattcttga aaataatttg actctttagg 600
tgaaccaact gaaatctcat ttacactgtt gatttgccta gtaataaatt ctcttttagta 660
tgagaaaatc aaagaagttt gaagtggaac aaattctaaa ttactagaat atgattttaa 720
tggttaggag aatattataa ggggtataaa acagaatatt aatccaaata tttaagatgc 780
taattctggg taaaagctat ttttgagatg acatgaattt tcaaaatact aaaattttta 840
aaataatcat ttccacaaac ttatttaagc tgtgtgtaat gtatgtaa actaagtaat 900
atgttattca attttaggaa ctttatgtat gttttcatac tagtattaga aaataattct 960
gaaaggaaga tgaaaatgaa aatattcatt taggttaa ac 1000

<210> 72
<211> 1000
<212> DNA
<213> Homo sapiens

<400> 72
atgatatcc tattggatgg tgctaactctg gtgcagggtt tcttaacctc aggactactg 60
gcattttggg tcaggtcatt ctttattgtg tagggctgtt ctgtggattg tagaatggta 120
agcagcctcc ctggcctcta tccactggat gccagttata cccgctccag ttgtgaccat 180
cagaaatata tccagataaa ataccaaatg tcccttgggg gagaaatcgc cccagttgg 240
gaaccgctag tctggagaaa ctccaagatt taaaggttgt agaagagaaa gagctgccag 300
agaagactga aagggcagtg gaggagagtg ggggtgtgtgt gggggggtgt gggcaggagc 360
caaaagagtg tttcaaggac ttggtcatga tccttttaaa atgccagtca gatcatgtca 420
cttctgctc aaaaccatcc acacgcttca catccattt gaaataaaat gccaactgct 480
taccatgccc tatacacaga acaactgtaa taacctgggc acctttgaga gtgaaaggag 540
gcaataactaa taatcatgcc agggcagttc agggcacact ggaggtacca tctcctaagc 600
tcaggccctt gccatctct ccagcttcat cccaaccac tttctgcctt gtccactcac 660
ccacgacagc cttcttgcca tttgtattgg gccattctca cattgcaggg gccagagctt 720
aggatgacaa acatatagca acacatataa tgtaatgtca gtgatattaa tagatgctgt 780
gaaataagat aaagtgaggt ggagacatag ggtgactggg ggattgggtg ctattttact 840
taggggtcag gagatcgtct ctgaggatga atcacttatg cagagaccg aatggagaga 900

00100US1.ST25

ggaatctaa gaagatctgg ggaagaggat tccaggcaga aggaacagca agtggaaagc 960
 cctgaggtag gaacaagcat ggaatatcaa tagaatggtg 1000

<210> 73
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 73
 ttcctattgg atggtgctaa tctggtgcag ggtttcttaa cctcaggact actggcattt 60
 tgggtcaggt cattctttat tgtgtagggc tgttctgtgg attgtagaat ggtaagcagc 120
 ctccctggcc tctatccact ggatgccagt tatacccgct ccagttgtga ccatcagaaa 180
 tatctccaga taaaatacca aatgtccctt gggggagaaa tcgccccag ttgggaaccg 240
 ctagtctgga gaaactccaa gatttaaagg ttgtagaaga gaaagagctg ccagagaaga 300
 ctgaaagggc agtggaggag agtgggggtg gtgtggggg gtgtgggcag gagccaaaag 360
 agtgtttcaa ggacttggtc atgacccctt taaaatgcc gtcagatcat gtcacttcct 420
 gctcaaaacc atccacacgc ttcacatccc atttgaaata aaatgccaac tgcttaccat 480
 gccctataca cagaacaact gtaataacct gggcacctt gagagtgaag ggaggcaata 540
 ctaataatca tgccagggca gttcagggca cactggaggt accatctcct aagctcaggc 600
 ccctgcccat ctctccagct tcatcccaa ccactttctg ccttgccac tcaccacga 660
 cagccttctt gccatttgta ttgggccatt ctacattgc aggggccaga gcttaggatg 720
 acaaacatat agcaacacat ataatgtaat gtcagtata ttaatagatg ctgtgaaata 780
 agataaagt aggtggagac atagggtagc tgggggattg gtggctattt tacttagggg 840
 tcaggagatc gtctctgagg atgaatcact tatgcagaga cccgaatgga gagagggaat 900
 ctaagaagat ctggggaaga ggattccagg cagaaggaa agcaagtgga aagccctgag 960
 gtaggaacaa gcatggaata tcaatagaat ggtgatatgg 1000

<210> 74
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 74
 aagcttacct tggctgctta cactcttctc caatgccatt taccttgtgt gatacataat 60
 atcttgatg aatcctattt tctctgtgtt tgtgtacctt tctttgaaga atatgacctg 120
 tctcaataat tcttttaatg tttttctctt agtcctttta acatcagcag ggcatctgta 180
 gtggtagcag gagaaacata aacatatacc tcttttctat tgcttttctg ctatttacia 240
 taattctgta tgactctgaa acaaaagaac aattacctga caatttcttt ctgagtccta 300
 tattctggct ttcatatcca atctcctttt atcatgctat tacctctctt ttcttctgtc 360

00100US1.ST25

tttgaggatg ggaaaattca tcaacaccct aaataccagc cagagaggaa aaaagagtct 420
 ggatggaggc aggactcctt tcaaagctga atctcaagca ctgacacagg agcagcagca 480
 aagagacact caaaaagagt ggagagagga aaaactagct gatctctaag gtgtcttcca 540
 ttcaaattca ctataattat aagaatgtga ttactggagg aagaacaagg gcaggggcat 600
 ttctgcaaca tgacgcaaaa aaatattgac cttaaatttg atacatatga actttctaaa 660
 tgtagagaga agctacctcc ttgctgcaact tgtatgtgtg ccattcattt cattttaata 720
 aaagtttgta aacatgaatg aatgcagggg acagaccacc tctttatgag aatgcagcat 780
 agttcagaga aagtctattt accaaaaact gaatacatgt ttatactgaa attttaattt 840
 tttctatttt tatttttaat tgtgataaaa tataaataac ataaatttac catcttaatc 900
 atttttaagt atacagttca atagtattaa gtccattcgc attattgtgc aaccaatttc 960
 cagaactctt tttatcttgc aaaaatgaaa ctctataccc 1000

<210> 75
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 75
 accacaaagg ctagaggcat ggattattgg aaactctctt ctgaaaaatt ttttactaat 60
 ttgggagatt aacagtcaga atcaatgggt gatggtttat agagtgatac caaccttgct 120
 cagtcctgct catcatttcc aatcaacaaa atgaataaag atgaagagag tatgcttatg 180
 acatcagtga atagtacaga tctcagactg ctgaagaatg tacaagatga cttagcctgg 240
 atccaaaaag ccaagctgga gaggtagggt gggtccaaca agacaaaatg taaaaacgaa 300
 gaccaatact taagaccaa aagtcaagcc aaacaaaaca tgctgatgtg gctaaacagc 360
 aagttgtgct aaaaaataag actcaagaag tcaaaggcca gttttatatg aatccaaaaa 420
 gccaatgcaa ttttaatttg ctttaataaa tatgtattat ctggaaaaaa acacatacta 480
 cagtgaagtt tctgtggaat gaaatactaa agcatgtttt cttggagaaa gagtttccat 540
 gaccaaataa gttgggggat actccaagtt gatataaaca ggtttatatt ctacaggaat 600
 actcaaagtc gatatggtga ctattgcttc tcaaagttat ttgaacatgg aacacttctt 660
 tttgtagtac ctcttgaggc tgggtgttaa gagaacactc ttgagaaaac actgaacaag 720
 ggctgtctca ggaggcagtt ctctgtaagt gggactcttt ttaaaaacag aagagatcca 780
 aacatcagat gagtggtggt ctaaagacc ataaggtttc ctctaccct cgaagtctgt 840
 aatacttgggt tatccagacc taacaaacaa tcctaattcc ccatgacacc tggaccagag 900
 tttctgatga gagaaactct agagaaatac tagtagcaga gtaatgattt aaaaaaaaaa 960
 aaaacttttc ctccaatgag tgcattgctt aaaagggtgt 1000

<210> 76

<211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 76
 ctccaggatg cgccccttcc cggcacagcc cactgccata tcttgctgga acctgggtca 60
 tcgtccatcg tctatcacag gctccgccag ctttcgtgga tgccatctat gtccgtgggt 120
 ctaccccgtc tcgccaccag cttccactac gacgctggac agtacacagg gagcagacgg 180
 ggattccagg aggaagccac tgcaaatagg gcctgcagct gccctctctc cttctgaaat 240
 cctagcatag tccaggacac agcacctccc tggtgagca gctgaactgc caagctcaac 300
 tccttgattg agcagatatt ctgcagaaat agaaaaggat ggaggaagg cttcttccca 360
 cacaatgaac atcaaaccac cccaaggggc agtggtctgg gcctcccttc ccaaacagct 420
 ggctcaaac atgcacaaaa ttttccaaa gtgggctggg agcagggcag ctggcttcca 480
 ctttcatatt actgatgat ccagacatac ttccatagt tttaaaaatt ttggatgta 540
 tgtcaaatgc tcttaagagt gcgatcttag gcatgtgta aataaatatg atgtaatcct 600
 cccgtctcca aggggtgctg tgccctctcc ctccctccct cactggctct gggcaagccc 660
 ttgacctcca cgatctctct gcgcctctcg tgacgccac aacaagggc tgtgccaaag 720
 ggaaaggtag aaagaaaaga ggatgtgctg tgtgctgtca tcatccctgt gccagagaca 780
 gggcacaggg tgggtggcctt gcaccaccgg cgcaccccc acatggggaa gctgggggtca 840
 ccctgcacca caggcatccc atcagcctct gtgacactga caatgattct cgtgaatgga 900
 caggctgaat ggtcctcagc cctctctttc tatgctggct gaactctgag gcgggaacag 960
 gacagacagt ggctggaggc cctggcaggg agggcacctt 1000

<210> 77
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 77
 ctgtcagttt ggtgccctcg gctacgcagg gcctgttaga agggtgccct ccctgccagg 60
 gcctccagcc actgtctgtc ctgttccgc ctcagagttc agccagcata gaaagagagg 120
 gctgaggacc attcagcctg tccattcacg agaatcattg tcagtgtcac agaggctgat 180
 gggatgcctg tgggtgcagg tgaccccagc tccccatgt gggggatgcg ccggtgggtc 240
 aaggccacca ccctgtgcc tgtctctggc acagggatga tgacagcaca cagcacatcc 300
 tcttttcttt ctaccttcc ctttggcaca gcccttgtt gtgggcgtca cgagaggcgc 360
 agagagatcg tggaggtaa gggcttgccc aggaccagtg agggaggagg ggagagggca 420
 gcagcaccct tggagacggg aggattacat catatttatt taccacatgc ctaagatcgc 480
 actcttaaga gcaattgaca tacatccaaa aatttttaa cactatggaa gtatgtctgg 540
 atgcatcagt aatatgaaag tggaagccag ctgccctgct ccagcccac tttgggaaaa 600

00100US1.ST25

```

ttttgtgcat gttttgagcc agctgtttgg gaagggaggg cccagccact gccccttggg 660
tgggtttgat gttcattgtg tgggaagaag ccttccctcc atccttttct atttctgcag 720
aatatctgct caatcaggga gttgagcttg gcagttcagc tgctcagcca gggaggtgct 780
gtgtcctgga ctatgctagg atttcagaag gagagagggc agctgcaggc cctatttgca 840
gtggcttcct cctggaatcc cegtctgctc cctgtgtact gtccagcgtc gtagtggaag 900
ctggtggcga gacgggtgag acccacggac atagatggca tccacgaagg ctggcggagc 960
ctgtgataga cgatggacga tgaccaggt tccagcaaga 1000

```

<210> 78
 <211> 1000
 <212> DNA
 <213> Homo sapiens

```

<400> 78
tataatttct ggatttacat gccaggttac aaaaggagac ccacacgaaa tccctgaact 60
cctgtgcca cccagagatt aacatggaga ggtcaggggc tgttttctct ccataggctt 120
cagtggcctg gatgtctgag ttttcagaga caggataagt ccacatatta tttttaaaca 180
aatttcttac aactcaaaag ctttcatatc ttactttctt ggtaagagtc aagtttatta 240
tccacgtcca tacaacaca gctggctaca caaactgac taggacaaaa agtcagaaac 300
atggggccat aggattctgg gtaaagtgtc tttctaaca aaactatcat atttacagaa 360
aagcagacaa agtgatgaga gtcttctgcc tttagaatta gctgacttta aaaattaatt 420
taactctgac atgtgacaag aattttatac atcattgcaa aattaaaaag gcactttgga 480
gtggaagtac tgattacagc atatttttga tagagataat ggactttatt taaaacacat 540
tctaccattt tctcctgtgt ttttcttga gtccacagag gaaagttact acacaaattc 600
aggttatttt tattgacggg tatgttatgg tgaagctaga tgaatagagt ttaaagttaa 660
gttttgttgg gtatttccag gccacttggc acatcaaca ggtaagcact ttttctcaaa 720
gaaaagtgtg ttgtattgat cttgctttgc tctagtattg acaattatat gaaattttaa 780
gcattctctt agaattccca gctttttgag ggccaatttc tattcagggtt tttatggcta 840
atctcttatg acatctgtca ttccaagtat ttaaactctc atatgtttct ttggtgtgca 900
ttttttcatt tgtttaagct cgtttcttag gtcagtgagg gtgtgtgttc tttcttttat 960
atcacagggc tttgtccaca gggtagactc agctcatgtt 1000

```

<210> 79
 <211> 1000
 <212> DNA
 <213> Homo sapiens

```

<400> 79
gaaagctgac aaaattacat ttcttgagtc cagtatctat tctttaattg tcttccttta 60

```


00100US1.ST25

tatttgaact cttagtcaac tgtggtccaa agagcattca actgaggagg gaggctcgct 120
aattttccct cacctagtga cgcccatgct tgagcttcat gaaatttaag ataattatta 180
ttatatagtt atataatcat ttcagtact atctttttct tcttctttac ttttattttt 240
taaaagcaga aaacaataaa atggccatca attgcatgaa cactgctcta aaaagataac 300
agtaagaccg aacctgaact gttggctacc tggccgtgcc atattaatag cttacaagga 360
tcagatatag aaatatcaat cacaggttgt gtagagggtg ccatgtacag agcacaacat 420
tgtatattaa aaggatgttg agcttttata attattgcta tggttttata cagtgttaata 480
agcccatgat aaataggagc tcatatttta tcttaatgaa gtgctatttt atattactta 540
ttgattttatg tttttccccc aagaaagttt taaccttctg agacttagag actcatttaa 600
atgctttgac ccccataccc tctttgcagg gtgcaggagg atgtgtatga tcttaacctt 660
tacagcaaat ctcttctttt ggatggggta ttgcaatttt cttttagagg atcacactta 720
gtccagttca atgtagttaa gaaggggctg acttcatctc tggttccatg ggtggacgct 780
tgatccactc tggtaagca aaatactgca tcagtgtaac tcatttgtga atgggtacat 840
gatccaagct ggaccaataa gagccctacc tagagttttg cttgaattgt taggataaag 900
ggaaattott tctgaagca ccaaggttat tttctggaga aatcatgacc aagagtgaag 960
ccaatgcatg gaaaacaaaa gccgtgagta aaaaaaaaaag 1000

<210> 80
<211> 1000
<212> DNA
<213> Homo sapiens

<400> 80
atgcatcatg tcttcatttt gtggcctcta atagattctt gggatgtaaa agaactcatt 60
ttatatacat atgcaaattt aaaaccttct ataataagtc tgacatcacc tgtgtcctct 120
ctgtgtttgt gttatcagca agtgaatttc tcagtactcc cacatcacia accccaatta 180
ccactccata tgtttcccaa attagtagct aatagcgttt tcccaggcga atgtatctag 240
aaataccag ggattcactg ctatacctaa gtcagcaatg gttcatcttt ctctttgctg 300
tggaggagaa cttgaccaga ggagtcact tccctggcc cggcagcttc ttgcatggga 360
aactagctgc tctgctgct acttggtgta tgatttacc tatagcacat tttatcttta 420
cgtaaacaca caaagtcctt tcacgtcttt gttcctgttc ccatgccatg actccttctt 480
ggaataccat tcttttatct ttactcacta aataagctct tctactcctt ttcttcgggc 540
ccccttcctc tgattcagct gagaacaac tactgtctgt ctccatcaaa gctaattttc 600
tgctctctgt tttccacca tactttgcc ttctagacat ctgttgcata tcattttttc 660
tgttacttaa ctaatgcatc agtcttcatt cattctctc ccagactata ctctctctgg 720
gttcagagca tatctcattc atttctgtgt tacctttgct tatctcagtg ctggcttcag 780

00100US1.ST25

agtagatact tcagagatgc tatttaaato agagttaggg tagttagaat aggagagaat 840
gaggactcta tgggtgctcag gtgccatgca tcctgcaaag agaacaatgaa aggacatttt 900
tttttccttc aataattaca tggactcctt cagtgatccc tgtgtctgtt gggccttgag 960
taattacctg caatctctgt ctttgtgagg ctattaatta 1000

<210> 81
<211> 1000
<212> DNA
<213> Homo sapiens

<400> 81
gccagtcaat gccaaagaca ttctgttcgg tttggaatga ataaaacttc tgatgcccat 60
atggtaacct tatgctttga gaactcttct atagcacaat aaaatctgag ccgtcagagt 120
aactaagtga tggaaaatga ataactaaat gtatagggaa agaatccaga aaagaaattt 180
gtattttatt ttttctaagt aacttcacac gatatgtttg agaaaactgt atgatctagt 240
gaatagaata ctcaaaactc taatatacaa gtcacaggta tggggccctag ttacttcact 300
aaatgactgg ctttaggcag ataacttgct tgggtccagt tactaactat gagaaataga 360
aaatacatca ttacctttct ataatagtcc acaactattt cagcacaccc aatgtgacaa 420
aaaaccgtct caagcccact tcagtaacaa ctgagaattt gtgggttcat ttaaatgtca 480
aggccagcag taagtgaggg ctggttctga ggctgacata ttctgaggag aacatggtct 540
tgctttctct tttctgggca cttttgtcct ctggatggaa tccattcttg ggcaggctga 600
agtccttctc tcatggtggc aagatggata tgccaggcaa ccatcctgtc tgcagagagc 660
ctgcctagtg agaagttttg ggattagttc tgacttgatg aatttggttc tcatgtttat 720
ccttgatat atctcttttg ctcaggtgaa tggatatgtt gactgccaca cctgggtttc 780
tgtgactact cctggattca gtgatggagt cagccccaag taaggcccat aaacaagggt 840
ggaggagagt ggttcctgga aagaaagtca gggtaaaggc aaggggacaa atgccagatg 900
ggcagtaaat ggcagctgtc caaattttat gcctgaacca ctgaaaggaa tcttcactct 960
cactgtgggt attaacatag gacgcggtga tgcttaatgg 1000

<210> 82
<211> 1000
<212> DNA
<213> Homo sapiens

<400> 82
actagcttgg atgcacaagg attcaaggat gcatagttag caagtagcaa agtagttatc 60
aagcctaggc gggcgctgac tccagaattc aagcccaagg tcacttctct atactatttt 120
acattgtatt taagaactac atgaacatga atgcatggtg tgatgcttat agtttcctga 180
tgcttatagt gtctgatcc tacttctgca taagccatgc aaaggtagtg acccagactg 240
tagaaatgcg tcagagttag atataccaac aaaatgaaac gagtgaagt agtataattt 300

<210> 84
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 84
 taacttgttc cagcacagat tcaaaagtct aaattctgaa gtctcaacta aatgtcatct 60
 aaaccagatg taggtgagac tcaaggtatg ttattctga gagaaattgc tctccatctg 120
 tgattctgtg aatcaaataag gtaaagagct tccaaaatgc aatggtgga cagacataga 180
 atcgacattc ccattccaaa agggagaagt aggaaggaa actacaaca caacaaagta 240
 aacgataaat cttagggtc cagaataatc tccttttgat gccccatctt ccaatcttcc 300
 aggcacactt gggcaggcgt tgggccccca aggctctggg tgtcccagtc ccagcccaca 360
 tgacagcact tacatattag agccacatgc caggctggaa atgccctcta gtggctctac 420
 tggctctatg tcagagggtg ggcctgctcc tatgactctg ccaagcacag ccttagtgga 480
 ggctttttgt ggtggccccca cccctatgtc aattctttgc ctgagcctca agactttcca 540
 gggcatcctt tgaaatctgt gtggagtcag ctttccctct atggtattgc actgtgtgtc 600
 ctggtggaga tgatacctag agaacattac caacgtttat catctgtgcc ctccagaaag 660
 gtggccactg gagcccacac cacacttgga ccctctggag ccatgcctgg aatgactgag 720
 cagtgtgtg tcagaaagca gggagcagag atgaggtagc atagggcagg aagtgtgtgag 780
 ctccagtggg catcctgggc ccctcttttg acctgtttct gtcccctagg ccttggcacg 840
 ctgggcctgt gatgggagca gcagccgtca tgatgtctga aatgctttta gtgggggtca 900
 ttctccatt gccttgatga aaagcacctg gcttctgcag ttccatgtta atctgatcaa 960
 atggttgtctg ggccacatcc ttggtattct ctcccaaca 1000

<210> 85
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 85
 ccacagaaac attcttcagt agaactttaa tattactgtc ttataaaatt ctgtcaaattg 60
 aacaaaagat aaccataat tacaccctaa tatgactgct tttaacattt tactgtattt 120
 cagccttttt gctatgtata taattttaca gagttgtaat cataccagat atatgatttt 180
 atcatgtttt ccacttacc attataggta tttttaatat tgctacatag tcttcatggg 240
 tgtcattgtt aatagctatg ctgtaatagt tcaactgaatt gaagtgtttt atttacttag 300
 ctaccctatt atcttttaac aatttctaatt ttctttttat aataaacatg gacatatctc 360
 tgacaggggt gtcttttttc acatcttgac ctacttttca catagtgtta caattacctg 420
 accaaagaat acaaactttt tgtctcttga cgtatatctc caaaagattt ttaaaagggtg 480

00100US1.ST25

cattaattta ctctgcagct ggtgtaaatg aagaccattt tgtcattggt ttcttgagag 540
 tagagcttcc aaaagtaggg atatgtggct aggaggaaga aatccagcct ggggcaggca 600
 ttctgtaaag aactccagtt ctactggta cactggtttt atttttctct gtttcttgca 660
 gactgagcaa ttgataactc tgtgggtcct ctttgttttt accattgttg gaaactccgt 720
 tgtgcttttt tccacatgga ggagaaagaa gaagtcaaga atgaccttct ttgtgactca 780
 gctggccatc acaggtaagt aactatgcaa gtgagaggca ggaagctata tgtgaagtcc 840
 ctatggcttc ctgctttttaa tgaattttat caaaaaaaaa aaaatgtaac gcatcgggtca 900
 atttggaat aatttctgaa agaataaaa acctatattt gaatatttcc tctggcatac 960
 ttaacacata tgaatgcctc taagatttca ttataaaagt 1000

<210> 86
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 86
 aataagcaaa tctattttga cagaaagatt catgattgct cctggcagca gggggtgagg 60
 aagttgggtg gaaatgggta cagagattct tttggcgatg atgaagacgt tgtaacagct 120
 tttgaatttt acaatccaga attctattct ctgctaatta gtcaaataaa gggcagaaaa 180
 tatacatttt aaaacacaaa gatgcagaca ttacattcca catacaagag gatgtacccc 240
 agcaaaacaa ggtgataaac caagaaagag aaagaatggg atccaggaac aacagcttca 300
 acccaggata acaacaaagg gaactactcc agtgtaaca gctgggcagc cagagagaca 360
 gcatgtagtc ctattgaag cagaaagaca gagggttctg agacagaggt ctccaggaaa 420
 aaaaaaaga acctgactta ctggataaac aagtctttag tttaaaaaac aacaaaaaac 480
 tgtatacaca tatatatata aaatcaggta gtataaagaa aaacagaact ccagagattc 540
 ctgggtcaca gaaggggaaa gggctgttca agaaagtga attgaactaa ctgaaaatac 600
 agctatcttt atattggaag gacagtcagg aagtaacag ataaggccta aactgcataa 660
 agcaggaaac agcagactaa agacattatt aagaaatatg gaacacaacc aaaagaaata 720
 gcaaaaacaa tgaaaagtga ctgtttttca taagtgaggc aggggaagag aaggggttat 780
 ttttttcccc attatatgtc tttaagaact acttgctaaa aatattgggc acatatgaat 840
 ttgataaaag cgaaaaactt ttacttcac aagtcagct ttaacatacg ttgattacag 900
 tgaagttttt gttctgttaa ccactttagt aggatttgtc taaatttagt gatttacaat 960
 gcctgcagta gaatcagaag atttactg aagggttat 1000

<210> 87
 <211> 1000
 <212> DNA
 <213> Homo sapiens

00100US1.ST25

<400> 87

ccttctcttt cgggtatttt agtcagcctc tttttatcgc tgttatcaca gatatcccca 60
 gagaccactt gttatcataa tttgctaata tttcacaaaa gatgaccatt tagtttttaa 120
 ttaaattctta taggacttac actctcattt gttaggcaag gaaattgagc caggtcaaatt 180
 taagtaaatt gcccaaaatt ctactgtttt ttccaagtaa ttttaaagag tgacatccag 240
 aaaatctgtg acttctagga atacatttag aaaaacatat accagagggt ttaattgcag 300
 cattgttttt aacagcaaaa attggaacta aatacacatc aattggatac agataaataa 360
 agtatgagat attcatggac cagaatcctg tgctgtaatt gaagtgaatg aactggcaat 420
 gtgtgcacca gtatcccaa attataatat ttactaaaaa aagcaaatg ctgaatgatt 480
 catgctgtat gataacatta tataaagtct gagaacatga aaagcaactg caaacataga 540
 ttatagctgc ataaataaat aataatagta taataaacat ttgttaggaat ggaatagaga 600
 aaaacattat gagatccaga gtgccccaaa aaaacctgcc cccatatttt aaatcaacca 660
 ttttctcatt taacccatt tttctcctc acttactatg tgactagatg ttctttggtt 720
 ttgttaaaaa aacatttccg attccttaac atacctaaaa atataataaa ttattctctc 780
 attattttct tctacataat atacaaatta cttcaaaata cgtacacaac ttactttcac 840
 ataataaat ctaacacagt ggcttttctt aggtatgcat tctactaaaa tcatatatc 900
 ctttctctaa taataaaaag attatatgac ttataattat atactacat agctgggcta 960
 tcatagtagc ctttctttt aatataaata ctttgatata 1000

<210> 88

<211> 1000

<212> DNA

<213> Homo sapiens

<400> 88

gggacatttc atgctgggga acatttttagg caaatgggcc ccaagacctt ttcgataagg 60
 atactccagc gaaacaaatg agactgttac aggaggcagc actgaggcag ggcagggtggc 120
 attggagaac atgcacacca cccatgggc accgtgcaac accaccacc acccatggaa 180
 gtggtgacaa cagtggggag ggaagcctg tcaagcagat gtcaccagggt gcttcaagca 240
 gtgtgttagg tccctgctta taggtgccag gccaaactcac ccaccttctc tgactcttg 300
 gaaagaaaat agtggagggtc tttctaaatc atgtgagaca ataactccc cagagggtgcc 360
 atcctctaga ttccagggga taaagacgag cacaagaagt actgctgagc actttgtgtg 420
 ggatgtgtgt ctaaacacga caatctgaag acagagggtg agaaattggc aagtttccta 480
 aagcatgaca acacacaccc aaaactcttc cataatgatt ccttttttcc ctgtattttt 540
 cctggatgca ccatcactat gggaaccagg atggttactc ccaattocct gtcaccacc 600
 gcttatttta taaacgattt ctactttact gaaattgatg cttcgttttc ttctaattcc 660
 attctatact ttacctctgc tctgagttac actgaattta taacccttct tttaaacaga 720

00100US1.ST25

agtcttgcaa gaacaaacta cagcagtatc agcaaccaac aatgccacca atacagatta 780
 aaaaaacatt cttatctgag gccaggtaac caaatattatg caaaataact caacagatgc 840
 tggtcagtac tagctgaccc atgaatttaa gctcttactt ggaagaaata caacccaaag 900
 aggagagaaa ggaaaaaaat gagtctcata ttaacatata ataaaacctt attaactgat 960
 aactccataa attatgagtg gcaatcagat agataattca 1000

<210> 89
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 89
 tattatgtta ttgtgtaatt atttgaatta ttgtcccctt tccatcaatc ccccaaacac 60
 acacatatta ggtggaaatc cttaggggct gagatgatgt tttatttaca tctgcatgcc 120
 tgatgttaag ccagtgctg ggcacgaatg cgatttagtg agtgtttctt gaacatgaat 180
 aatgaattca ccagtgaag catgagtgga tctgggtggg gcacaaaagg ctgactccag 240
 gttccaggaa tctgggtgga gaaacttctg ggctggaggg agcagaggac cactgtgtta 300
 ggtctacgtg gttctggctg gcagggttag caaggatgca gaggagtctt tgggtcttgc 360
 tcaaatgata atttaaaaca acaataataa ttaacattca tttagtctt actatgtgtc 420
 agtcccttat tgccttctat gtattcagcc actaatctc aaaattctag gggttagata 480
 tttttccggt ctatactata catatgagaa aaagggtaga acagggaggt gcagaaactt 540
 gccccaggat acacagcaag taaaatggga actgggattg gtcacctagg gattcttgtt 600
 ttttagattt tgttttttta atctctctat agccccttag gttatttatt gatattttta 660
 ctttttattt tgaaataatt gtagattcac aggaagttac aagagagagg tcctgtgtac 720
 tcttcacca gatttctcca atgcttagat tttatataac tgtaatacaa tatgaaaacc 780
 aggaaactga tattggttca atatatgtgt atacttctat gccatttcat catgtgtaga 840
 tgtaaccacc atcatgacca agctgcagaa ctgttccatc accacgaaga tctgccacct 900
 gttgctcctt taaagtcata ccagccctct tccctgtccc caccactgt cactatgctt 960
 aacccttggg aaccactaat ctgttttccc atctctatag 1000

<210> 90
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 90
 atgcatacac cagagccgac ccgagactc tgcaaccag gccagctgc acggtcagtt 60
 tggaagtcta cacaagcatc tagaggacct ggacacaaac agggctaatt caggtgcccc 120
 attcatgtcc caactctgtc ctgtcaggcg actaaggcag ggctctggga atccagggac 180

00100US1.ST25

aggtggagta actcgtacac agtcagtggt ggagtcttag caggtgactg ggtcctgccc 240
 ggactcgtgt gggatggagg gctgggtaaa ctcatgtctg caataaaagg gacagaatct 300
 cagtgcacaaa gagactagaa aaaatgttag gttccagag agaggctgga attcagaggg 360
 gaagatggaa gccatttga tatagtagtgt gtgaagatgg aagggtggcc ctgccgtgag 420
 gaagacacct gagctatgaa gagggtgagta taagcttgga accagatgtg cacataccca 480
 gaggttcatgt ccaacatata tcaaaatctt tgcaaagtct gtgtggatcc ttaaaaactg 540
 gggagggcag agccagcagt gggcaggtgg cccccacctg gaggaatggg attatagagt 600
 ccaggagtga ggcagcggcc tacagtttgt cctcatcctt ccatittcca cacttccagt 660
 ttcctttcaa ccacttcaga aaaaaaaaaa agtcacagaa gtctaattgt gccaaagtta 720
 gaaaccaggt cgtcattagt gtgagtggaa tcaacgttga ttacagtctg gtccttttca 780
 agtttctttg atatcttcaa aagcccaatc atcctgttcc atctaggaca ttaagaaaaa 840
 tacacccaaa gaatagtctt tcaagtacat tgccaccgta gctagatgat tattatcctg 900
 actattaatt actattatga ttactgttgc catgggtttt atgtttttct gtgtgcccat 960
 ccaatccac atccagccac cacagccact gctgggtttt 1000

<210> 91
 <211> 1000
 <212> DNA
 <213> Homo sapiens

<400> 91
 tattatgtta ttgtgtaatt atttgaatta ttgtcccctt tccatcaatc ccccaaacac 60
 acacatatta ggtggaaaatc cttaggggct gagatgatgt tttatttaca tctgcatgcc 120
 tgatgttaag ccagtgctg ggcaogaatg cgatttagtg agtggttctt gaacatgaat 180
 aatgaattca ccagtgaag catgagtgga tctgggtggg gcacaaaagg ctgactccag 240
 gttccaggaa tctgggtgga gaaacttctg ggctggaggg agcagaggac cactgtgtta 300
 ggtctacgtg gttctggtg gcagggttag caaggatgca gaggagtctc tgggtcttgc 360
 tcaaatgata atttaaaaca acaataataa ttaacattca tttagtctt actatgtgtc 420
 agtcccttat tgccttctat gtattcagcc actaatctc aaaattctag gggtagata 480
 tttttccggt ctatactata catatgagaa aaagggtaga acaggagggt gcagaaactt 540
 gcccaggat acacagcaag taaaatggga actgggattg gtcacctagg gattcttgtt 600
 ttttagattt tgttttttta atctctctat agccccttag gttatttatt gatattttta 660
 ctttttattt tgaaataatt gtagattcac aggaagttac aagagagagg tcctgtgtac 720
 tcttcaccca gatttctcca atgcttagat tttatataac tgtaatacaa tatgaaaacc 780
 aggaaactga tattgggtca atatatgtgt ataattctat gccatttcat catgtgtaga 840
 tgtaaccacc atcatgacca agctgcagaa ctgttccatc accacgaaga tctgccacct 900

gttgcctcctt taaagtcata ccagccctct tccctgtccc caccactgt cactatgctt 960
aacccttggt aaccactaat ctgttttccc atctctatag 1000

<210> 92
<211> 1000
<212> DNA
<213> Homo sapiens

<400> 92
tagtttctct ggtctgcctt ggggaagaaa ggagagcagg agaaagaaag gtgggagaag 60
gccagaaaga ctttgtttct gaagctcttt cagtttctt cagttcaaag cactcatcac 120
accaagacac catactgtgg ggtatcacat tctgagccct aacacttcca atattatgct 180
atgaatttac atcatgattt caggtaatta ttccaacaat gccacaagggt gagcatttgt 240
gttatccagt ttcacagatg cagaaactga agtggaaaaa attgactagc attatatggc 300
tggcaagtga tcaaacagga ttttctcatt atttcattca ctcaatagtt attgagctca 360
taatatatgc caggcattat gtcagacttc atggatacag acaggtagac agtaaacaag 420
gtggccactg cccaaatgga gcttgcatte tgggtgggaa gacagataat aaacaacaag 480
aaagaagcaa tataacagat tgggacagt ctattaatat aagtaaata aggagggata 540
tcatcaggag aatctgggaa ggagtggatg ctacctgaga caggatggtc aaggatctgc 600
ctagttgcaa agcactagac ttccacaac ccttctacc ctccagtggg cctctgcagt 660
atatatggca accaattctg gtttcatgta ttctaccact tactccaact ctagtaaata 720
tctgcaaagc ttaccattgc ctacgactct cagattattt cccaagatg ctgcagaatc 780
cttataatgt ttctcagcct caatagaatg aaaagcagggt ctgtgcttat atcacttaat 840
gaccaaagag gaaggaaatt tacaattaaa gtgtactttg ccaactgtgg atgaattagt 900
taggtcactg tgatctacag gttagatgtc tgttcagcag tgtcctctac ttgagattcc 960
aaggaggttg aagctcacta ctgccaccc ctgccacccc 1000

<210> 93
<211> 1000
<212> DNA
<213> Homo sapiens

<400> 93
atcagcgaca ccaccttggt tgtcatccct gagctgtgtt aagtaggcac ttcccctaag 60
agagttaaag gggcactcgt gagatactaa gaagactcct tccccagcc ccaggcctcc 120
ttgtaccttt tgcctcttca ttctgtctgc tgccttctgg gaaatgatgg gactggcagg 180
ctgtactatg cagcagggat agcagggtg tttgctctgc cctcaggaag gcagataacc 240
cctagaaca ggaagagcca aatgaggttg tgtaagtctg aggcagaaac attagtcgtg 300
agagcaagac ttgcatctgc aagagccagg ctgtgtgtgt gtttgtgtgt gtgcgtgtgt 360
gtgtgtgcat gtgtgtgcac gtgtgtgcat gtgcgtgtgt gtgtccgtgt gtgtgtgtgt 420

aaaactggat ggccaagagc caaccctgag agggcacgga gacaggaag aaaacagagt 480
 gaaacaaaaa tatttgtgta gaaggcataa aagttatcat cacagactcc actgtgtaaa 540
 ggcataactt gctttattta tctctagtgt atatgaactt agcctccctt tccattcagc 600
 ctgtgaaagg agatagtgtt tgggccattt ggtagaagaa ggggatggga gatgatcaaa 660
 accccaagta aggttcatat ccaatatagt gtctaagcag caaatgacta atggccgaag 720
 aaggagacta gacagaggat tagaggcagc catggggctg gtgcagctgt ggagagctct 780
 gagcaaagaa acaaggtttg caggtgagga ggcctaggat agaggccaga aggccaaacc 840
 tggggctgtg cagccagtgg tcatggtggc acagcaggca ctggctgggc attggctggg 900
 catgcagatg cccaaggcca gctgtgccac atagaagccc tgaggaagtg agggtaatta 960
 acccctgaac aaccagatc atcttcaggg gaacagccag 1000

<210> 94
 <211> 388
 <212> DNA
 <213> Homo sapiens

<400> 94
 ctgtgttggg ttcctccagt ggtttgtgga tggagatcat ggggtgtgtt agtccatttg 60
 cattgctata aaggactatc tgagcctagg tagtttgtaa tgaaaagagg tttatttggc 120
 tcaggggtca gcaggctgta caggaagcat ggcctggca tctgcttggc ttccggtgag 180
 gccccaggaa gcttccaatc atggcagaag gtaaacggga accagcatgt tacatggcaa 240
 gagggaaagc aagagatggg ggaaggtacc aggccctttt aaacaatcac atctcacatg 300
 aactcttttc tttctttctt tttttttttt tttttttgaa atggagtctt gctctgtcac 360
 ccaggctaga gtgcagcggc acagtctt 388

<210> 95
 <211> 662
 <212> DNA
 <213> Homo sapiens

<400> 95
 atgttaaaat aaatattcat atatgcaacg gcaggacttt aaaaaatata cacaaatagg 60
 aaaacaaaag agaccattcc agaagtcaac aagaaaaata agtttagttt tacaagaagt 120
 tcacgatctc gtccttattt taccacgtgc tagaatttgg tgaccaaagt accagaacat 180
 tagttttagt aatagtaatt tttaactaa atttttagcaa cagaacatta aaaaaaatt 240
 atctggcagc tgaatacaaa acgcaacaac aaaaaccaa acacaaatgg agctactcta 300
 gttagagtca gagaggcaga tctctgaacc atgcctgcct gcacacaact caaaaaacta 360
 gtaatgtaga gtgatttctc aagcctcttc tggtagtcta aacattacag attcttctga 420
 ctaaaaagag aggcaatccc tgagactctc catagaaacc ccaggctctg tagaagccat 480

gaacatttgg tattgagggt ggaggcaaca gaggctccag ctgtagtttt gttttgaacg 540
aatctggaaa ataaactgaa aaacaattta aaacaaaaag actttttaa atgtaatgta 600
aagttgatgt gagatgttgg aataaaaatg aaggccattt caaaaccac cacaggcaga 660
tg 662

<210> 96
<211> 644
<212> DNA
<213> Homo sapiens

<400> 96
cctgcaaagt ctcttcctgc tgcaccttc ttctgaaacc attaatacacc acgacccact 60
gaatgaagcc caatctcaaa tcacagtga aaatcctgca acgtgcaggg tgatgagtgt 120
ttacattagc tgaatgaaa tgatgtaata ccagaatcg agggagggtc gcgatccaga 180
gtcagggcac tgcaaaaacc tctgtgaaac ataactttt tacattacaa aaaaatgtcc 240
ttgcgtttta gtaatctggc ttctgtaaat ttaggattac ttggatttt ctgatctcat 300
caatttgttt tccaaataga aattcagaac ttccaatta ctactgttt tagtcaagtt 360
taaaaaaag gtagcaaat agaaccctaa gtgtatacat gtgcaaaga cccagtatca 420
agggaataat aatagaaggc agccatccag gtatgtgggc acctgccatg ctgcagaata 480
gcagagcctc ccaagggtct aagtgccttc aaagtaaaga caactcctaa gaaagacagt 540
atgtgtttta gccagtggc aatttttctt cctataactg atgatgaaca agaaaaccca 600
ggagttccta gccctattat tgatgggcaa ctgctattga ttac 644

<210> 97
<211> 582
<212> DNA
<213> Homo sapiens

<400> 97
acaagtcgg tgtacacccc ctgtgattct gggagtaata tcttctcctc ccttgatat 60
taggaacaat atcacggcgg ggtgagggtg tgtgtacagc ctctgcaata ttgggagtaa 120
tatcatcctt tctccccact ggatattagg aacaatatca caggagggtc ggacaccccc 180
tgcgatattg ggagtaacat cattttcttt tccagtga tattaggaac aatattgcat 240
tggtgtgtac accccttcgg acattaggag taatatcatc ctctccaca gtggatatta 300
ggaacaatat ctgagaagga gtgtagaacc cctgcggtat taggagtaat atcatcctct 360
ccctccctgg atattaggaa caataacaca gggagagtat acagcccctg tgatattgag 420
agtaatatata tctctcccc atctgaatat taggaacaat atcagggggg tgggttacac 480
catttgcgat agtgggagga atatcatcct ctccccacct ggatattagg aacaatatca 540
caagtgagat atacaccccc tgcgatattg ggagtaatat ct 582

<210> 98
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 98
 tatTTaatca tataatacta aatatactgt attcagaagt tttttgtgtt ttagtcaggt 60
 aagatgcagg gtgtagaggt gttAACcttt ccttaaaatt ttaatggcta gatatcttga 120
 gatctgtctg atgtaggagt ggaaagtggg tggttctttt cttccccatc ataaaggctc 180
 acagctgata cccctataaa gaaagactgg ttaacaagag aaaagcaca caaatttatg 240
 aatgtgaata agtatgagag ccatacaaaa atatgaaaat tcaaagaaat ggtagacga 300
 ttgatgttta actaccttct tcattaggga gaggaagtt ggggcgggag tgggggagtg 360
 gggaatgggg cccctccat ctccaggagt ggataatgtt ttgtaaataa ttctgtttgg 420
 acactgaatg gagcggaatg gaaaggacaa acaataggaa tgtgaggggt ggaactgcat 480
 ggtgaacaaa ggttgtctta tt 502

<210> 99
 <211> 541
 <212> DNA
 <213> Homo sapiens

<400> 99
 ccgaagccga aaagtctgaa actggcccaa agtgggaatt tatatccctg ttctcctgct 60
 ggaatgttgc cttttcctaa accacccatg gtcccgccct acaccatcct gtacctatac 120
 aaaccccata ctacgccagt agacaggact atggttgac attggagaga agcagcttga 180
 tggcttaaca ccgaagaaaa atccagccag agacggccag aacttccggg gagggttacg 240
 ctaccgacct tgtctccttc tcagctcccc ttctgccga gagccacgtt tcattcaca 300
 taaaatcccc cacatccacc acccttcaat ttattcgtgc aacctcattt ttctggctg 360
 gtggacaaga gcgcgggagc cacaggtgga gatacaaaaa gctgtcacat tggccctttg 420
 cccttgctgg cggagggcag ccgcctcaca cagaggcaga gggccactg aactgttaac 480
 acttaagcca tctgcagatg gcagagcaaa aacagcactg gaacatgcc tctggggctt 540
 c 541

<210> 100
 <211> 610
 <212> DNA
 <213> Homo sapiens

<400> 100
 atagagacga agttaaacac ttaatttgca aaactactga gaagtaaatt tottggtcca 60
 aggtaactgg agtaattgcc aaatgcagat aaatcctccc cctgagtagg aagccccaca 120
 ctgttttgaa aacaattcct agactttgcc cctgttgaag ctgattgaat gctcaaccac 180
 aagactccac tgttgtagc tctcgcttac tgcttttagg ggcggagtta acacttttca 240

00100US1.ST25

aaaatccgag cttccctaataaatacaggg atttagtgaa gattttgatt gtctgggggtt 300
 ggcatctctg aggacagaat aattttatttt gctctaagca ggtgtgttat gagaacagag 360
 gctatgttga taagagatcc ctgggagctg gtaatatatt atcttctgta atttcttcca 420
 aaaatagact taatggaaaag aggatgcata atataccccc tctcaaagga agcgttcccc 480
 aatacaacag aagcagtcata tctaaaaaca gctttatggc tctgcagtca ataactctat 540
 tttctcccct ttcacaactt ccttccttct gctatgtaag aacttatgtg agggcacaca 600
 cacattcagc 610

<210> 101
 <211> 524
 <212> DNA
 <213> Homo sapiens

<400> 101
 aaaaaaaaa acccccatga tatggatatt gttatcattc cttttctcac aaatggtaat 60
 attgaaatta atagaggttg tatatcgtgt ccacagtcac acagttagaa agcgtcagag 120
 ccagggtttg aactcaagta gcctaactat agaaccata tttttaatca ctatacagta 180
 ttttactatc tgttccatca aaagaaatca tttttcagag tggagatgat agaacataca 240
 tgagaacaag agtattttaa tccaagatac ctgcaaagca tctagacact ctagatttag 300
 acttttagct ccttggccaa gattaattac ctttcaggaa aataaaacta cataccaatg 360
 agatcactag acctctcgca atgatctatg aagaataatg ggaacagcta tctgggtatc 420
 taatgggcta gagtcagata aatgggttct caatagattt ccagaataat ggggaaattt 480
 ggttttgcataacaatagg ctacgtatgt tatattcatt ctag 524

<210> 102
 <211> 677
 <212> DNA
 <213> Homo sapiens

<400> 102
 tcctttctct ctttcaatcg tgtggagaaa ataattatca gttgggaacc atcatttttc 60
 tactaccatg aatgcaaatg tacttccatg acccatcttc ctttacgaat aaagttacaa 120
 tataagaaat accactacac atatctgagt ttatctttta actgtctttt agagcccatt 180
 ctcttctgcc ttctagaac ctctactatg gattatccct ttaccatagc attgtcattc 240
 tcttcttttt aatgcatttg tttccactg atttttaaac atgattgagt cattttcatt 300
 agagactaaa taaacatcct cattacatgg ttactagga ccaactccctc ttcagttgtg 360
 tggagaacta agctttttaga aagagacgtc caaactcagt atctctatct ctgcatgcca 420
 cacaaatcca gtttgatttt catcctcatc agtctactaa aagatgtcac taaggacacc 480
 aatgaattcc aaaaaagccc ctgaaatcca atggaaattt gacatttttg accactttct 540

00100US1.ST25

ctttcttcaa acattcttcc cttagttttc caagatagtt ttcttctttc ctttctactc 600
 actctatttt gatcttcttt gaaaattcat ccacctctac ccagtcataa aatgttaaga 660
 gttgaggggg gcagtc 677

<210> 103
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 103
 caggctaaat atcataaata aaacatctct catttctgtg aataggaaag cacacttgag 60
 tgaagcacag acatgacagt tgagcatgta agagatccat tgggtgctac ttgagaaagc 120
 agttggactg cattctgggt ctctctgaag ttgtcttta ggcaagtacc agatggattg 180
 tatttttagaa aagatttgct tggaacattt cctgatgtca ttatccagag acaatgagac 240
 aactcatttg cttatgaggt ttttactaca gcaatctaga gatggaattt ccaatggaaa 300
 taaaaaaggg tttttataat ttctatattg aactggcag ctccgccttt taaaaaatta 360
 gttcctttta atgaatgtat ttggggagta gattatagtg tatttagtaa attggcactg 420
 tgtttaga 428

<210> 104
 <211> 657
 <212> DNA
 <213> Homo sapiens

<400> 104
 tctcattttg aaaatgtaag tggatatcac tactgcattg cctggaaatc ccacgaggaa 60
 gataatgcca taaataacag ggaggtagtg catcttgagt gggatgtttt catcagtgca 120
 atttccaaaa gcagctgcat aatcggggaa atcagaagca ttgtctaaat agtctagtgg 180
 ctcatctatg gttgtctcct ttcatcttgc aagaaaacaa gagagttcag ttggcaata 240
 tgaatcaaat gagcagtaac tcgctgataa aggaaaacag aaaacattaa tgatagggta 300
 ataaaaacaa ggatctactt ttaaatgaaa attattctaa catcctaaat ttgccacttc 360
 tctctcttta atctcaaaag agaccctgtg gagaagaaat tgaatttcca agaaaatgac 420
 tatgaggcaa gttactaaat gcatctaata aaaatataaa agttaaatta ccatgagagt 480
 taaaatgagg gattgggaga aaaaagccac atgtcgcttt ggaaaacaat ttggcaagg 540
 caccatttgg agaagccata gggatatgcc attagagact taacaacagg acctactatt 600
 aaccaagtgt gatgcatgcc accatcactt acttctacat gtcacaaaat actgaaa 657

<210> 105
 <211> 533
 <212> DNA
 <213> Homo sapiens

<400> 105

00100US1.ST25

ccacctgctg tcctgctaga cgtggaaaga ttgcgagcaa cagagcaggg aaaatgagtc 60
aatggaggc caaaaatgag aactaagaga ttgtgagaa tattcaagca aggcaaggag 120
aaaataagag aaggaaagta aaatatagcc acaagcaaaa gtggtaacaa aatgcttgat 180
atgaagtcct atttaccagt gataagccac atggatagtt agttatgagc ttttttgtaa 240
tcaacaggaa aaggaaaatc acaattttca agattcccag tgtctctaag gtataaagcc 300
caagtaattg gagagaagca caactatttg tggaactaag ataaaaatga attgcctcta 360
gtcagttttt gaagagccac ttgtccaggg tctcacagct gtcggccag aatttgaacc 420
ccaaccacat agttccagag cccacattct cagacatagc cccaatact gcctctgggc 480
tggagctggt attctcaata actgtttggt gagtggatag gtgaatcacc att 533

<210> 106
<211> 595
<212> DNA
<213> Homo sapiens

<400> 106
tatccacata aatgtgcatt ttcttttggg ccaaaatgag gcagaggtgt catgtgaatt 60
tttcattcct tcacacaacg atagtctctc aaaaaacaaa gaacaaaagg aaacatatgt 120
tcacagtggg aaggattatt actogatcat ctgtataagc atggcccaag gagcctttgc 180
caacctactg gggatgtcac atgtaaaaag gtttctccaa aaggttggca atatgattta 240
ttaaaggagt cagatgacat gggagttaag ggcagcaaac ttcatgtga tggaaaggat 300
ctaagctgct ccagcaaaat gaaaggatta tggttcacct gccaacactg tgcaatttat 360
ggatgaaaacc tcaaccacga aaagtgaac ttctttgtgt gtgtgtatgg ggttgagagg 420
ggagacatag gaaaggaaag gcagacagac cgtggaaaac agatatttcc cctggataag 480
agtggaatgg ccagtctcat aacactcatg tattatagaa ttaaataata acctgtttca 540
gaaagtacaa tattaagacc ctttttaaat cttgatattc tttgatgata tctct 595

<210> 107
<211> 596
<212> DNA
<213> Homo sapiens

<400> 107
tttctactg atcagagtta ctgtagaatt tgatttaggt gtgtaaatta gtctgaggca 60
cacattcagt cttaggcaac cctctctgtg atggcatgcc tcaaagcagt ggtttgaatt 120
aggggcaacc ttcaaccctg agggacactt ggcaacatct tgaaatattt caatggtctt 180
aagtgagaaa gtgctatttg catctggtag attcaagcca gggatgatgc caaagatttg 240
acaaaacaca gaacaggcca tacaacagag aattatctgg tccaaaatgt caatggtgcc 300
atggttgaca aaacctgaga taagcttagg gaaggatcca gcacagagca gaatgtattc 360
tctctgtaaa gaagccaatc ccaaagagaa agaagttgag taatgctgcg tatatttact 420

00100US1.ST25

cactttctct ttccaaatth cttagtttga taattcactc gacttgccct ggtaaggaat 480
 gagggaggaa gcaaaaaaga ccaagcttgt gttacactaa ttactgtccc tcaacagaaa 540
 aacgtgaggt gaggggtaag aaagtcccc cattctcaca tctatatcca atacat 596

<210> 108
 <211> 603
 <212> DNA
 <213> Homo sapiens

<400> 108
 ttgctcttt ttctatgtt catcatctca ttgaatggca ccccatctg catggtagcc 60
 tgggaaatat attaaggtat tatccttgaa cttcttttct ttatcatccc tatgtccagg 120
 taatctgaaa ttctgtcaga atatgcatct ttaatctatc ttaaactggc ccatttttaa 180
 aaatttctat ctatcttgac cttactttac ctaaatgatt atcactctcc taattgtttc 240
 ctaatgggcc tcataggcaa gacaaatctg ttctttatac tgctctaga attatctttt 300
 caaacacgga tgtggccatc cttcttttctt acaaatgacc tcatagtccc aaagacaaag 360
 tctatactct ccctaaataa cattcaaggc cctcactcac gcagctccct gattcccacg 420
 tcagtatttt tgtcctctc cccttcccaa agcactctc cacatacgcg ttattctacc 480
 tggagtcata ttaagctact ttcaattctg ggttttctct tagccttcaa ccctctctta 540
 ggctggtgca ttctgggga gtggtccaat ccatgcacgt gctaccatgc acccaccttt 600
 ctt 603

<210> 109
 <211> 575
 <212> DNA
 <213> Homo sapiens

<400> 109
 ctgcatgttg tctattggtc tgatccatgg gttgcttttg ctccaaggtc caggctaaag 60
 gagatgccct ctctgggga atgtcatgcc cctgctagag gtagtctctg cttggactgg 120
 gcacactgct acttcgtgc tcatctcatc aaccccagcc agccactgtg gggcaagcca 180
 gtgttccttg cttgtcagag atgctgtact ttgcatacaa tgggtgaagag agtgaacagc 240
 aggggtgaat taaacagtca accacaacct gaagccactt tccctgctaa gtggacctca 300
 actcaatggc ctcatctga aagatgtggc cttaaattctt gcttggaatg gtaattcctc 360
 tctaatagac tctgtgttc tcttgccagt caagaggact gaaggggatt gaaggtctga 420
 acctaggctc agtggctact gccctctc cactagccgt ggcttcagc agacattcct 480
 gatgctgatg tgctccttg agtgtgagc ttgggggaa atcctgttgc atggtgccag 540
 acctccttc cccatctcat aactccatca cagag 575

<210> 110

<211> 402
 <212> DNA
 <213> Homo sapiens

<400> 110
 ttgtggagca gtttagagaca catggcagtg tccttgagtg gctctgagtg tgggaccatt 60
 ttctaggtga tcactcagca tagcttaccg atcagactca agtgaatgga acctgccctc 120
 ttccctttcc tcctggcttt ggaacagttg ctaccaggtg agtgggtttt ccctccagac 180
 agttactgag agtaatccct gagcactcac tgggtgcctg ttctgtgctg acagtcatct 240
 cattcatcct aacagcaatt ccattctgca tcttctctgg acacccccag gaccatccag 300
 gacaacctg cctgacacca ggctagtgt ggctccatga taacaaagac gcaggtccag 360
 agacaatccc cctacatggt gcctgcatct gattcccctt gg 402

<210> 111
 <211> 564
 <212> DNA
 <213> Homo sapiens

<400> 111
 tcttgactc tgggccccca aacaagaggc cactcagaaa tcacagtttg agaacaaggc 60
 accattgccc cctgagcctg ggctttcctg aggcttgggt aagagaaaga gagatgagaa 120
 ggctccctgg gctacagagg tctggagaga agctggcacc tgggaagaac aatttcccca 180
 gcagctagcc aagctggggt cttccaagtg gatgcagaga cctgccctgc tgccctcccc 240
 atoctctgag agtgccttct ctgggctttt gcttcaaaga gccatctttt tccacatggc 300
 actcatcttc cttgtccttt gcttcatgac accttgagcg tgttagaagc taatcctgaa 360
 caagcataga aggggcactt ggggtaggag ctgcagtggc accacccgag aggccagctt 420
 tacctcccc aaagatccac tgcccagaag ggaagaccag gggcctccct ggtgccaagg 480
 gcttgagagt atgcatcaa tgcagctagg tcctccacac actgtggtgg ggcccctcac 540
 cctcagatca gcattttact ctca 564

<210> 112
 <211> 433
 <212> DNA
 <213> Homo sapiens

<400> 112
 taacaaaaca ctttttatca tatatgaaac tcctgtacaa tgatttggct agaagaaaaa 60
 aatagttgga aggtcaaatt tgttttaaaa catctgttca aaagcctgca ttaaactttt 120
 atctgtcctg acaaaacatg tctcaatttc tttctaaagc agctctattg tcttagcata 180
 tgctcacca agttctttta agggcatttc caaccttagt tctgacaatg aagacacaaa 240
 gtaggttagg ttccaaaacc acccttccta gccctccctg tagaaaatac catgttgcac 300
 agttacatgt gtcccctgac acaaacgaca ctcatcttac gtaggtcact ggacctcaaa 360

00100US1.ST25

ctgttgttgc ttgctgtccc agccaattca agagtgaagg aagatgtaac cagacataca 420
tatctccctt tct 433

<210> 113
<211> 461
<212> DNA
<213> Homo sapiens

<400> 113
cagtccaatg ctccagtttt atagattggg aaaactgaga gcctaagggg tcaacttgta 60
tagctcctat ccccaaactt acaaaacaaa gagttttaca gaatgagtca aatataattt 120
gtttgggcta ctatttcatt ttaccathtt atccctatta gtatttatca ccatacatte 180
aaaggaattc atacatgtag acacatctga ggtgttcttg atttctcttg ttcgacctgt 240
ggtaaaactc ctgtggcact atagcacctt tagcttatca gtcttctttc cctcacctca 300
tagatcagaa cttatcagcc cccatcttgg tccttctgaa tcttttgtca agtcattgct 360
ttccaatctc tgataaagtg ttgaaagggt accattatgc ctctcagaga tacacacagt 420
catgtgccac ctaactatgt ttcagtcagt gagggacct a 461

<210> 114
<211> 444
<212> DNA
<213> Homo sapiens

<400> 114
ccaataccac catctgaggg tctagagaag gcttgattta ctttcatgag tcccggaata 60
agatctcctc aaacaaggaa ttttttttta atcatggaag tatggcaatg ggcaactaaa 120
ccaaaagtct cagtgtcctc ctcatagata gcttcgctca gaaacaggca gcctgggtag 180
agagatggaa tgtaaagtct tattaatgc tcagctgaag tgtcaagtag ggggctttgg 240
tgctgtcctt caggatgtaa tatatgtact aaaccagtga ccgaatacta tacagaatca 300
gtagtaccta aaatacatgg atttttatac caaggcttag acatagaatc agcacttgta 360
actatcaaat ggttgaggaa tttctacttc atttgtccac aattacgctg gattagaagt 420
gtttgcatcc ttgcatctgt gtgt 444

<210> 115
<211> 473
<212> DNA
<213> Homo sapiens

<400> 115
tttgttacaa tattaagaat gtgtccaagg tccagagata gcatgtaaca ctaacaaatt 60
ctgtgggatg gtggtgatgt caataccaag aaaagctttg cagagagctt ggggtttcag 120
ccaagactcc acaaaggcat aggggctttg tgggagaatg gcagtcctcc tggagaagtg 180
gcagataaaa aggtaaagat ctgtgagcaa cgtcatcttg agttcaggaa ttgacaatag 240

00100US1.ST25

tttggattaa gaagaagagt aagagtgtca aaaggagcat ttgtgtaatc ttctactcca 300
gagatttttaa tctccttaat agaaagttgt ttgtattgat tgaatgatta acctttatta 360
agaattttgt tgtctcaggc actggattag tagctttaca catttcattt aaatctcaca 420
ttttgatagc ttctactatg gttattatct tacagaagaa actgaagtta aga 473

<210> 116
<211> 261
<212> DNA
<213> Homo sapiens

<400> 116
cctgaaacca tgggctcttc gtacctccag tgccgctcac atcttatgac acatagtagg 60
ggcgttaata aatgcttatt aagttgacga ctatgccaga aaaaggggtga gggattacac 120
aaagtttttaa caaaatctca cggtaactct tcagaagcaa aaataaaata ataacattta 180
ataaaagtgc ctgctcaagg cctgcagccc aattccaggt ttgctccaaa tgttgatggc 240
cttgagcttt cttgtgtgaa a 261

<210> 117
<211> 193
<212> DNA
<213> Homo sapiens

<400> 117
ctgctccatg gggatgggcc tcagtgagtg tatgtgccag gcttgaaatg gcttcacggc 60
atggggttgca ggagcaccat gaggttcac taatctttgc cttcctctgc cagcatgtgt 120
gccatctgca atgtctcact gagcactgag tggggcctgc tatgtgggca gtatccctgc 180
catcttcata tca 193

<210> 118
<211> 364
<212> DNA
<213> Homo sapiens

<400> 118
atctcattgg tatgtagttt tattttcctg aaaggtaatt aatcttgccc aaggagctaa 60
aagtctaaat ctagagtgtc tagatgcttt gcaggtatct tggatttaaa tactcttgtt 120
ctcatgtatg ttctatcatc tccactctga aaaatgattt cttttgatgg aacagatagg 180
aaaatactgt atagtgatta aaaatatggg ttctatagtt aggctacttg agttcaaacc 240
ctggctctga cgctttctaa ctgtgtgact gtggacacga tataaacct ctattaattt 300
caatattacc atttgtgaga aaaggaatga taacaatatc catatcatgg tgggttcttt 360
tttt 364

<210> 119
<211> 425
<212> DNA

<213> Homo sapiens

<400> 119

```

agagatcttt aaaatactca aagaaaattg tcacctagaa ttgataact cttgaaaata    60
tcttgcaaaa atgaaggcta aataaatgat tttttgacaa agaaaagctg aaaaaattta    120
ttgtgagcag acctgtacta caagaaaggt taaaagaagt tatttaggta gaaagaaaat    180
gatatcaaat aagcagatct acacaaagga atgaagatct tcagaaatcg taaaattgtg    240
ggtaaattcta aaagccattt taaaaatttt gagtcattct aagattattg tctatagcaa    300
agaaaaatgc tagcaatttg ttatgagggt taaaatatgc agaagcagaa gtaaatcata    360
taatgatagc aacatgacaa ctgggggaaa atgaaagtcc actgaagaaa tgcttaataa    420
atgtt                                     425

```

<210> 120

<211> 438

<212> DNA

<213> Homo sapiens

<400> 120

```

actttccttt ccaggcattt cttgatgtgg aagagattta ctgagtctga tacctttaaa    60
ggtctgacaa gagacatttg ctgcctatgc ctctgttctt cttggaggag tgctaccaat    120
aaggcttcgt caacataaca aggccacctt agctagacag gcctcttctt ttcttctctt    180
cataacctgt cttgccacta aacctgaatt accagcaca cctctttggg gccatgctct    240
gagcccacat tctttctata acctcaagta ggtatataag ctctctgcgc ttattgtctt    300
cattctgaag gctcttatgt acatgcatta aacaaatttg tatctcctat taatgtgcct    360
tttgcgagtt gatttttcag tgaaacttca gaggtccaac ggcagtagcc cctaccaagt    420
tcaagatgct ccacttac                                     438

```

<210> 121

<211> 482

<212> DNA

<213> Homo sapiens

<400> 121

```

gtgatgtaag actggtggac ttaaattaat tttttaaagg catcatggga tttgtatcg    60
gctatctctg tatctagaag atgtcagact catggaagtt ttgtccattt tattcccttt    120
gcttatccat tctttcttgt ttacagaaag acttaatttt ctgtctcata tctctgtcct    180
tcttgcccca ctatttttcc cccttctoca aaaatccag ccccaaaaac agtctacata    240
ttgtgaaaaa gattttctca accacaaggg tgatgtaact ttaggcctgt gttttctctc    300
tcacacacac aaaatatttg atatgagtga gattttaaaa aattggtttt taaatgtgat    360
gaaaagagtg tccttttcac cagaacaaaa caacccttaa tgctgaagcc tccttcccga    420
tatgggtggc ttccaaatat gaagaaatct gtgcattggg ccacaggctc cagacaaagt    480

```

ct

482

<210> 122
 <211> 568
 <212> DNA
 <213> Homo sapiens

<400> 122
 ccttggcagc tccaacttga acatgtaaag ggtgtattca acagacaagt gagagaagga 60
 acctcacaca gcttgagtgg gcctgagata ggctgagggg cctaagcttc aattgcataa 120
 gcagggctag gtcactccag ttaccaaaga cagaaacaga tagtccagag ccgtccaggg 180
 gatgctagcc actgcccagg agatgatcag agaacacaca acagaaatca gaaaatgtag 240
 tacaagaaga atttgctgat aggtgcaatc gcctcagcaa ggcacaggaa actcaactca 300
 gaaggcagtc tgtctgtcat ccaccaattc tctgggtcaa gtctgatgtg cactcataaa 360
 gtaaaaatgc actgttattg tgactgagaa aaaaaataaa gctaaaaggt aagtgcctat 420
 aaaataagat ttactaatg caaacaaaag cctaagaa gtgtggtttg agcccagtg 480
 cctcctctat tagcaccaac aatggatagg tggttgagtc tgtcaaatg cctctggggt 540
 tacagaaatg aaagcttggg ctgtgcc 568

<210> 123
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 123
 cattttttac cacatatact ataagaatta gtattatatt tgattaaaat aaatgttatt 60
 ttcagaggtg caattttttg ctttcagtaa gatttcta ttaaggaagt catttttaaag 120
 gctaaattta aatgagaaaa agagcttggt gcaacttggt atccagttgg atccagtttt 180
 ctctgctggt ccattttttg tatccctttt gagtttgc tcttttttaa catttttttg 240
 tatagcagat ttttattttt tggtagattt gtgcacataa acttcttggt gtggaggaga 300
 gggttaaattt taatagctaa tgggacaaag gtatataggg atatataggt acaaccctag 360
 ctcttattct ttcttttcct ccatagtatt ctggtgatgt agggataaaa ttt 413

<210> 124
 <211> 525
 <212> DNA
 <213> Homo sapiens

<400> 124
 ccaagcaaag ttatatttgt attttatttt acatttattt tgttatattc cttttatcta 60
 cttaggtttc ttctctactt ccttttttaa ttgaagagtt taatgcatgt atctgtgtgt 120
 ttgcttgaaa aaaaacacca agtataacat gttctatcta tgaatacttc tggccattaa 180
 ctcaaaaggt actatattac agacagaaaa gcaccagaaa gcaatcaggg acttcatcta 240

00100US1.ST25

agaggtagga cagcatagtt ggtaaaaata cagaccctgg aggcaaactg cctgggcttg 300
aatcccagct ttattacttt gggaaaacta cttatcttct ttacttggtt tggatatcat 360
gtctgtgaaa tggaagtaat aataatcctc tcatagcatt gttgtgaggt ttcaatagat 420
gaagtgaaga ctttagaagg gcacatgata agaattatat aagggttacc tattattgct 480
atccaatttg tcatagcaag ctaagggacc ttgggcaagt tactc 525

<210> 125
<211> 575
<212> DNA
<213> Homo sapiens

<400> 125
actggtagaa tgggctcatt caagcatgta acgcccttaa atttttcatt taaattttct 60
gtgccttaga aatgaacttt acagtaatct ttgctttcta aaaataaatg tgtttcttgt 120
taagcattta gtctcatcac aaattctggt ttgaaaaaaa acaacagaaa atagtgaatg 180
agaagggtag gagacttagg actcagcgaa ttctatctca gtgccaagac tttaaaactg 240
ggaataaatg ctacttctcc atgacctggg tctgataatt tgtctgcagg aacactgttt 300
ctagaggttg gtgtgtgaca gtgggaggaa tggactttgg agtgagatcc atgttcaaatt 360
cccaagtcac ttaccttctc tgatcctcag ttctctcatc tgtaaaatga ccataatcaa 420
caccatctcg aagatttgtg gtgacaacac agcatttact tctgtctgta tacttcccat 480
ttcctcttgt agagacagaa ttttccactt tattttaatc tataattatg taatcccat 540
taaaaatcac ccttcgactt tcagttccac aaggc 575

<210> 126
<211> 638
<212> DNA
<213> Homo sapiens

<400> 126
attgctctct tctagatttt ctaatgttgg tcggtgccct tcgtaagttg tgtacaaagc 60
tggatccagt actccaaggg tgatctgacc tcacagagca cagtgcctgg ggagtgcctt 120
taatctggac ttggaattcc atcatacaga ggccaagtct ctgaccatga tgttctctct 180
gtgtaactgg ggctgctgaa acccaagtat tgtcagccag tgccgggtctc cagccatgct 240
tgtgtctttt aagaagtgac agtaactgct atttgtggag atggctattc atagggactc 300
cttttctttg cctgacagag gccagtggt ctaagctcta agaggggctc tgatgccagc 360
atgtgagtca cactcacttg ctactgttct tttccagagt ttggggccac ttgttgctgc 420
acatcactac ctctctccc cctgccagc ttgcattgtc gcccttcccc atctaccatg 480
ctgtccttga acataaggcg cttctctgca ttccatgtgt ctactttgta gttatgtgct 540
gcattttgaa agagctgaat ctatgtccag gttcaagaaa gaatgctgat caactgttgg 600
caatagatgg gtttaatat tcttatgatt ggttcttg 638

<210> 127
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 127
 tagtctagac tctttttccc cttttaaggt cagctgatta accttaattc catctaatac 60
 cttgatttcc ctttgccatg tatgtcctgg ggatgaggat gtggatggat ctaggggggc 120
 cgggtattctg gctaccatag ctatcttgct ctttttgttt ataattatga tatgttccaa 180
 aaaggagtaa aacgtaatac aagaagataa aaatacattt accattaagt aagaaaaaag 240
 acaagggaga agagaataag aaaatgagtc aggagtggga tttatacaaa aaattagtga 300
 gtccacttta cttcctggaa gtggatggtg agcttttctt gccagccttc ttgaagaggg 360
 aagcactgtc agttatgttg tagtgtgtcg atctagtaaa atccaactgg ttgttcagat 420
 acctagatga atattcttga taggaagatg aaaaaaaaaat ttcttccaaa gtcttcatgg 480
 atacataaag tgtataatga gcaaaacctt tgacatgttt acagtaaacc caatggtgtg 540
 tttcacctgg cctttctctt ctttcgttta ctg 573

<210> 128
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 128
 catctattcg acgaccttga gttaccgctg agacatttct gaggcacaac actaagaaaa 60
 cgcattgtaat tgtcaagcgt ggcagggcag tattgtcttc aaagtcccg tctgactgaca 120
 gggcagaggt tottctcac tgccgaatc tgcttccga cagctccagg gttccctcag 180
 gaagccgccc tocaccttca cctcaggcat gtctgcaga gccctctgga gaaccagctt 240
 caggttctgc ctattttgac gctgcctaaa ggagcccacg aagaagtaaa tgacgggggtt 300
 ggcactaccg tttagaggag acaggaaaat ggaaactaga tggacatgac agaaaatgac 360
 ttccaaatcc aggtgtatcc cagtagacag agcccaccga atgccgaagg gcaggctgcg 420
 gagtaggaag actagcactg tgagcaggat cgtcacgtac a 461

<210> 129
 <211> 655
 <212> DNA
 <213> Homo sapiens

<400> 129
 tcactggaga agcctagtca cctgggcaga atatcttgaa cctaggataa gttcatccat 60
 ggtagaccaa ctctgtgatg gagttatgag atggggaagg agggctctgg accatgcaac 120
 aggatttccc ccaaagctca gcactccaag gagcacatca gcacaggaa tgtctgctgg 180
 aagccagcgg ctgtggagga ggggcagtag ccactgagcc taggttcaga gcttcaatcc 240

ccttcagtcc tcttgactgg caagagaaca gcagagtcta ttagagagga attaccattc 300
 caagcaagaa tttagggcac atctttcaga atgagaccat tgagttgagg tccacttagc 360
 agggaaagtg gcttcagggt gtggttgact gtttaattac accctgctgt tcaactctctt 420
 caccattgta tgcaaagtac agcatctctg acaagcaagg aacactggct tgccccacag 480
 tggctggctg gggttgatga aatgagcaac gaagtagcag tgtgcccagt ccaagcagag 540
 actacctcta gcaggggcat gacattcccc aagagagggc atctccttta gcctggacct 600
 tggagcaaaa gcaacccatg gatcagacca atagacaaca tgcagccctc atcta 655

<210> 130
 <211> 657
 <212> DNA
 <213> Homo sapiens

<400> 130
 aagagtaga gcaggatttt accttgtttt acaaaaaaga aaagtttatt ttgaaaaaaa 60
 ttccaacctt gcctcctccg aactatagtg aaaagataat tttccacatc cctttgttca 120
 ggaaatgagg acacagtggg gtcattgggt tttgattgtc cacttgaaa aggttaaaac 180
 ctgtcctaca gtcattgatga cttcagttcc atttaagtgg ggtcctgtct ctctcactct 240
 ccaccgactg tacctttact ataacatggc cttatataga tagctttgag taagtgtgtg 300
 ttaaattgact gccaagtga atggaaaatt gagaagggcc tccagcactg gaggatggaa 360
 aggagcactg ggttcattga ctctttggat ttctcccttg ctacgtaagt ccgttcccta 420
 aaggacatgg atcttgacag tgttggaatc ttcagaaata attgcaatac cagaagttat 480
 ttaagatttt accattttca aagtatttgt acgtaacact ttcatatgtt tttgtttcct 540
 agctacctca gtttccctgt tggcttgagc agattagtgt aaagaggtgg tgacatcagg 600
 ggaaacaggt ttactcagcc atcttcatta ccatattatc actgacttga ggctcct 657

<210> 131
 <211> 566
 <212> DNA
 <213> Homo sapiens

<400> 131
 tagtcgctgc tttctgtttc cgcttaaaga tggagatatt ttttcctttc atgcttgagg 60
 agtctcgaaa gttttgcaca ctcttcacc tcctggaact tcaactgtgcc attcagggtg 120
 actactgctg tctggctcca ctcgaggga gccaggtaac ctgtgttagg ccgcgctttt 180
 cctggcggcc ttgtaaatct gttagtacat gaaaagcatg acgcacatgg ggattaggat 240
 gccaatgcgg tggagtaa atcgtgtagcca aagtcttgac tgaccaagca caccttatca 300
 tcgtttacat tctgagcccg accaaaaatg gtaggtaaag tgacaaaggc ggaaagaagg 360
 cagacagaaa gaatcatctt cgtcatgcat ttccccctct gcctcatagg gtacgtgaga 420

00100US1.ST25

ggcttcatga tcccaaggta cctgtcgatg ctgatcacgt acaagggtcaa gatccaggcc 480
 gtgcagcaca tgacattcac ggagaagacg ttacagaaaa agtgtccaaa gatccacttg 540
 ccccccgatga ggtcgggtgac actgat 566

<210> 132
 <211> 575
 <212> DNA
 <213> Homo sapiens

<400> 132
 agtggttacag ctgggcagcc agagagacag catgtagtcc tcattgaagc agaaagacag 60
 aggggttctga gacagaggtc tccaggaaaa aaaaaaagaa cctgacttac tggataaaca 120
 agtctttagt ttaaaaaaca acaaaaaact gtatacacat atatatataa aatcaggtag 180
 tataaagaaa aacagaactc cagagattcc tgggtcacag aaggggaaag ggctgttcaa 240
 gaaagtgaag ttgaactaac tgaaaataca gctatcttta tattggaagg acagtcagga 300
 agtcaacaga taaggcctaa actgcataaa gcaggaaaca gcagactaaa gacattatta 360
 agaaatatgg aacacaacca aaagaaatag caaaaacaat gaaaagtgaac tgtttttcat 420
 aagtgaggca ggggaagaga aggggttatt tttttcccca ttatatgtct ttaagaacta 480
 cttgctaaaa atattgggca catatgaatt tgataaaagc gaaaaacttt ttacttcaca 540
 agtgcagctt taacatacgt tgattacagt gaagt 575

<210> 133
 <211> 651
 <212> DNA
 <213> Homo sapiens

<400> 133
 aaagggtgaca gagaagtagg tgaggaattc agttttaaat ttattcattt ttaagttgtg 60
 tcagggtctcc ccaagattat ccctcgggtc tgtgattcat aggacttagc atatagttgt 120
 attcacagct atgacttatt aacagaggga taccgaagca taatcagcaa aaggaaaaga 180
 tgcattgagga aaagtctgaa gaaaccaggg acagcttcca agattctttt ccagtgaaa 240
 ttacacagga tatgcttaat tctttcagca aggaattgtg acaagacatg tgaaacacta 300
 cctgccaggg aagttcctta gtgactcagt gccatgggtt attattgggg actggtcacg 360
 tatgcctctt ttgctcata cttagagaat tccagttcca gaaggaaagc aggtattcag 420
 tataagccat attatttgca tagaccagtt taggatcaag gaattgtagg aagcttttca 480
 aaatctaaga ccccaaatac cagccaagag ccagccttgc aagcaggaca ttttaagagt 540
 agcagtccttg ggtctgctgt attaactctt ttctgcacag aaatgatagt atgacatcta 600
 agttattatt atcaagggac cgagaaatgc atgtttttta ggctagggaa g 651

<210> 134
 <211> 966

<212> DNA
 <213> Homo sapiens

<400> 134
 atgaaccaga ctttgaatag cagtgggacc gtggagtcag ccctaaacta ttccagaggg 60
 agcacagtgc acacggccta cctgggtgtg agctccctgg ccattgttcac ctgcctgtgc 120
 gggatggcag gcaacagcat ggtgatctgg ctgctgggct ttcgaatgca caggaacccc 180
 ttctgcatct atatacctcaa cctggcgcca gccgacctcc tcttcctctt cagcatggct 240
 tccacgctca gcctggaaac ccagcccctg gtcaatacca ctgacaaggt ccacgagctg 300
 atgaagagac tgatgtactt tgccacaca gtgggcctga gcctgtgac ggccatcagc 360
 acccagcgct gtctctctgt cctcttcctt atctgggtca agtgtcaccg gcccaggcac 420
 ctgtcagcct ggggtgtgtg cctgctgtgg aactctgtc tcctgatgaa cgggttgacc 480
 tcttccttct gcagcaagtt cttgaaattc aatgaagatc ggtgcttcag ggtggacatg 540
 gtccaggccg ccctcatcat ggggttctta accccagtga tgactctgtc cagcctgacc 600
 ctctttgtct gggtgoggag gagctcccag cagtggcggc ggcagccac acggctgttc 660
 gtggtgtgtc tggcctctgt cctgggtgtc ctcatctgtt ccctgcctct gagcatctac 720
 tggtttgtgc tctactggtt gagcctgccg cccgagatgc aggtcctgtg cttcagcttg 780
 tcacgcctct cctcgctcgt aagcagcagc gccaaccccg tcactctactt cctgggtggc 840
 agccggagga gccacaggct gccaccagg tccctgggga ctgtgtcca acaggcgctt 900
 cgcgaggagc ccgagctgga aggtggggag acgcccaccg tgggcaccaa tgagatgggg 960
 gcttga

<210> 135
 <211> 198
 <212> PRT
 <213> Homo sapiens

<400> 135
 Lys Lys Gln Val Ser Leu Thr Glu Gln Glu Thr Ile Leu His Phe Phe
 1 5 10 15
 Lys Trp Gly Lys Thr Glu Gln Leu His Glu Lys Tyr Asn Ser Leu Tyr
 20 25 30
 Ile Lys Leu Ile Gly His Glu Leu Ala Leu Gln Val Glu His Asn Asn
 35 40 45
 Ser Arg Ser Lys Ser Arg Leu Pro Ser Lys Ser Cys Ser Ile Arg Arg
 50 55 60
 Phe Phe Ile Gln Asp Ala Lys Ile Ile Lys His Asn Asn Cys Ile Glu
 65 70 75 80
 Leu Asn Glu Asn Arg Gln Cys Phe Ile Ile Glu Lys Phe Ser Asp His
 85 90 95
 His Ala Lys Ile Phe Leu Ile Phe Asn Phe Leu Cys Arg Ile Ile Phe

100

105

110

Met Ser Met Gly Tyr Phe Glu Tyr Arg Arg Ala Met Cys Asn Asn Tyr
 115 120 125

Ile Arg Val Asn Ile Val Ser Ile Thr Ser Ser Val Tyr His Leu Cys
 130 135 140

Tyr Lys Gln Ser Ser Tyr Ile Leu Leu Val Ile Leu Asn Cys Thr Thr
 145 150 155 160

Lys Leu Tyr Leu Gln Ser Pro Cys Cys Ala Ile Tyr Ile Leu Phe Ile
 165 170 175

Phe Phe Leu Thr Ile Phe Cys Thr His Pro Ser Ser Leu Tyr Ser Pro
 180 185 190

Ser Ala Gln Leu Asn Ser
 195

<210> 136

<211> 214

<212> PRT

<213> Homo sapiens

<400> 136

Arg Cys Ser Ile Val Ser Ser Val Ser Cys Pro Leu Leu Pro Pro Gly
 1 5 10 15

Val Asp Ser Cys Thr Val His Pro Thr Pro Ala Phe Pro Ser Phe Leu
 20 25 30

Ile Ser Pro Val Ile Phe Pro Val Ala Leu Leu Cys Trp Cys Pro Val
 35 40 45

Arg Ser Cys Gly His Lys Arg Leu His Gly Pro His Pro Gln Leu Gly
 50 55 60

Glu Ser Ser Pro Ser Trp Val Leu Trp Thr Val Lys Lys Asp Gly His
 65 70 75 80

Val Gly Ser Val Glu His Glu Val Val Gln Asp Leu Gly Gly His Arg
 85 90 95

Ser Cys Leu Pro Ala Ser Arg Ala Leu Pro Pro Phe Gly Ser Leu Leu
 100 105 110

His Leu Gly Lys Arg Phe Val Pro Thr Pro Arg Arg Val Asn Arg Ala
 115 120 125

Pro Trp Trp Ser Thr His Cys Pro Ser Glu Gly Pro Ser Ser Leu Met
 130 135 140

Ser Trp Cys Pro Gly Leu Pro Gly Arg Ile Leu Ala Ala Leu Pro Gly
 145 150 155 160

Pro Glu Met Asn His Trp Glu Glu Ile Gly Asn Glu His Thr Ala Ala
 165 170 175

Thr Leu His Pro Asn Pro Val Pro Tyr His Arg Arg Leu Leu Trp Gln
 180 185 190

Asp Asp Ser Ile Ser Val Cys Leu Arg Ser Leu Phe Leu Pro Arg Leu
 195 200 205

Leu Pro Pro Gly Arg His
210

<210> 137
<211> 141
<212> PRT
<213> Homo sapiens

<400> 137

Ile Ile Ser His Thr Ala Phe Phe Arg Phe Ser Leu Ser Ile Cys Phe
1 5 10 15

Cys Asn Ser Tyr Trp Thr Phe Thr Ser Leu Ser His Cys Leu Leu Tyr
20 25 30

Leu Leu Thr Phe Val Phe Ser Val Ser His Cys Cys Ile Val Ser Tyr
35 40 45

Tyr Leu Ala Leu Pro Val Asn Ser Leu Ser Phe Phe Cys Asn Leu Phe
50 55 60

Ile Ser Ser Leu Cys Leu Leu Phe Gln Leu Asn Leu Ile Ala Gln Ser
65 70 75 80

Phe Ile Trp Ser Phe Lys Ile Cys Phe Cys Leu His Ser Tyr Phe Val
85 90 95

Leu Phe Ser Leu Ser Leu Tyr Leu Phe Leu Met Leu Ser Ser Ala Tyr
100 105 110

Tyr Phe Asp Ile Tyr Phe Leu Ala Ser Leu Arg Tyr Ser Ile Ile Ser
115 120 125

Gly Pro Arg Ile Ile Lys Ser Pro Thr Thr Ser Val Asp
130 135 140

<210> 138
<211> 223
<212> PRT
<213> Homo sapiens

<400> 138

His Glu Trp Leu Thr Phe Phe Ile Glu Asp Glu Ile Leu Ser Trp Cys
1 5 10 15

Ile Tyr Val Pro Cys Tyr Phe Pro Ala Asn His Phe Ser Asn Thr Ala
20 25 30

Gln Leu Tyr Ser Asp Thr Val Asp Thr Val Phe Gln Ala Leu Tyr Phe
35 40 45

Gln Phe Ile Cys Gly Ile Leu Asp Ser Phe Gly Ser Ser Thr Glu Val
50 55 60

Thr Phe Ile Tyr Arg His Phe Arg Gly Ile His Thr Thr Ser Tyr Asn
65 70 75 80

Cys Thr Ala Ile Ala Cys His Cys His Val Phe Ile Asn Phe Gln Phe
85 90 95

Leu Glu Asp Phe Ser Ile Ile Ile Tyr Lys Leu Val Lys Phe Thr Val
100 105 110

Ile Cys Gln His Leu Glu Gln Glu Lys Met Ser Ala Lys Asp Gly Arg
115 120 125

Thr Leu Tyr Phe Ile Leu Ile Ala Gly Phe Leu Pro Asp Asp Asn Phe
130 135 140

Gln Lys Ile Asn Pro Asn Phe Asn Thr Ser Cys His His Phe Thr His
145 150 155 160

Ser Asn Ile Lys Ile Ser Asn Phe Thr Tyr Ile Ser Ser Glu Ser Thr
165 170 175

Asp Lys Leu Phe Tyr Ile Glu Gly Asn Ile Ser Trp Glu Val His Asn
180 185 190

Cys Thr Cys Arg Ile Ile His Arg Ser Phe Gln Val Leu Leu Leu Gln
195 200 205

Ile Gly Leu Lys Ser Ile Thr Val Gly Leu Ser Val Ala Gln Lys
210 215 220

<210> 139

<211> 173

<212> PRT

<213> Homo sapiens

<400> 139

Asn Ile Ile Thr Phe Phe Tyr Glu Tyr Ser Trp Ser Phe Gln Asn Lys
1 5 10 15

Thr Ser Tyr Trp Phe Asn Lys Leu Trp Tyr Asn Gln Ile Met Lys Leu
20 25 30

Tyr Ala Phe Val Lys Val Thr Phe Gln Lys Asn Ile Leu His Arg Ile
35 40 45

Thr Asp Pro Ser Ala Leu Pro Thr Leu Trp Ala Leu Ser Leu Phe His
50 55 60

His His Tyr Leu His His Cys Leu Gln Val Phe Tyr Thr Ala Arg Val
65 70 75 80

Gly Leu Cys Leu Leu Asn Ser Gln Val Lys Arg Gly Arg Lys Leu Thr
85 90 95

Pro Ser Gly Gly Ser Leu Gly Met Ile His Gly Arg Trp Ser Ile Asn
100 105 110

Thr Ser Ala Leu Phe Pro Leu Glu Ile Leu Arg Asn Gly Phe Tyr Ile
115 120 125

Val Ser Gln Ser Phe Leu Lys Val Leu Asn Phe Asn His Pro Gln Gly
130 135 140

Val Val Gly Phe Ile Ile Val Tyr Ile Pro Leu Trp Leu Pro Phe Leu
145 150 155 160

Leu Val Ser Leu Leu His Ser Lys Leu Gly Phe Ile Ser
165 170

<210> 140

<211> 223

<212> PRT

<213> Homo sapiens

<400> 140

Val Phe Leu Ser Arg Lys Glu Glu Lys Gly Trp Val Val Thr Gly Gly
1 5 10 15

Gln Gln Cys Gln Asn Trp Gly Val Trp Thr Gly Ile Gln Glu Asn Glu
20 25 30

Gly Ala Gln Asp Glu Gln Lys Gly Gly Glu Ala Ile Phe Ile Lys His
35 40 45

Leu Leu Cys Ala Ser Gln Ala Arg Leu Gln Ile Ile Thr Leu Leu Lys
50 55 60

Ser Ser Gln Gln Pro Ser Asn Arg Tyr Leu Ser Leu Ile Pro Tyr Pro
65 70 75 80

Cys Ser Ala Ser Pro Pro Ile Thr Met Ala Glu Glu Phe Lys Pro Leu
85 90 95

Ser Lys Ala Ser Thr Val Ile Cys Pro Leu Asp Pro Ile Pro Ser Ile
100 105 110

Phe Leu Phe Ile Glu Thr Phe Ser Met Val Phe Lys His Thr Leu Leu
115 120 125

Ser Leu Leu Leu Asn Arg Gln Met Gln Leu Ile Lys Leu Phe Phe Ser
130 135 140

Leu Gly Tyr Cys Pro Ile Ser Leu Leu Pro Phe Met Ala Glu Leu Leu
145 150 155 160

Glu Arg Val Phe His Asn His Phe Ile Ser Thr Pro Leu Thr Asp Phe
165 170 175

Thr Gln Leu Glu Glu Glu Gly Thr Leu Ile Pro Lys Cys Pro Ile
180 185 190

Lys Pro Asn Pro Leu Lys Val Leu Cys Cys His Asp Gly Cys Glu His
195 200 205

Gly Glu Lys Ile Leu Glu Asp Val Gly Asn His Asp Arg Glu Thr
210 215 220

<210> 141

<211> 176

<212> PRT

<213> Homo sapiens

<400> 141

Ser Cys Glu Thr Ser Ile Leu Val Ser Trp Gly Gln Gly Asn Gln Gly
1 5 10 15

Pro Ser Met Leu Ile Leu Pro Cys Val Arg Leu Ile Leu Ser Ile Ser
20 25 30

Gly Gly Gln Val Ala Thr Trp Pro Pro Gly His Thr His Gln Glu Phe
35 40 45

Ile Leu Cys Asn Leu Glu Glu Gly Leu Arg Asn Ala Gly Gly Tyr Leu
50 55 60

00100US1.ST25

Pro Gly Asp Ile Leu Tyr Pro Leu Ile Gly Asn Trp Gly Arg Ser Gln
65 70 75 80

Phe Gly His Thr Phe Pro Glu Leu Asn Phe Tyr Glu Gly Asp Leu Gly
85 90 95

Gly Arg Gly Ser Glu Ala Asn Ile Ala His Val Pro Gln Thr Leu Val
100 105 110

Cys Leu Thr Glu Ile Tyr Ile Phe Ser Asp Lys Phe Phe Lys Ser Leu
115 120 125

Leu Tyr Val Phe Arg Thr Ile Ser Gly Asp Phe Leu Lys Asn Asn Phe
130 135 140

Cys Leu Leu Tyr Leu Phe Ser Ala Val Thr Gly Pro Gln Ser Pro Tyr
145 150 155 160

Asn Val Asn Pro Glu Val Glu Leu Leu His Tyr Ser Phe Phe Phe Phe
165 170 175

<210> 142

<211> 209

<212> PRT

<213> Homo sapiens

<400> 142

Ser Gln Lys Asn Thr Thr Pro Leu Leu Glu His Asn Val Ile His Phe
1 5 10 15

His Leu Leu Ala Ser Leu Ala Glu Phe Gln Lys Cys Asn His Tyr Glu
20 25 30

Ala Gly Thr Lys Asp Phe Pro Asn His Phe Val Ile Leu Ile Asn Ile
35 40 45

Ser Ser Ile Leu Leu Asp Pro Phe Thr His Phe Leu Tyr Cys Phe Pro
50 55 60

Phe Pro Glu Val Leu Asn Lys Ile Ser Leu Leu Phe Val Leu Glu Lys
65 70 75 80

Ser Ser Cys Leu Pro His Arg Met Val Val Gly Glu Thr Gln Trp Glu
85 90 95

Thr Ser Val Lys Gly Gln Lys Thr Leu Thr Phe Val Ile Val Ser Ser
100 105 110

Phe Phe Gln Asn Thr Ser Ile Ala Trp Leu Leu Tyr Thr Arg Leu Leu
115 120 125

Lys Ile Tyr Leu Cys Pro Thr Thr Leu Phe Val Val Asn Ile Phe Leu
130 135 140

Ile Leu Ile Gln Tyr Ile Ser Glu Ile Phe Asp Leu Gln Ser Asn Leu
145 150 155 160

Ser Ile Thr Met Ile Pro Tyr Leu Asn Thr Gly Met Val Lys Met Arg
165 170 175

Thr Asn Leu Pro Phe Leu Cys Ser Tyr Arg Gln Ala Ile Leu Ile Thr
180 185 190

Asn Val Gln Ser Lys Pro Met His Glu Cys Arg Met Gln Leu Lys Ser

195

200

205

Arg

<210> 143
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 143

Ser Phe Pro Val Ser Glu Lys Ile Lys Pro Cys His Ser Lys His Val
 1 5 10 15

Leu Pro Lys Phe Lys Lys His Val Asn Leu Leu Val Lys Leu Tyr Val
 20 25 30

Leu Val Asp Phe Glu Ile Leu Cys Asn His Leu Lys Leu Ala Ser Gly
 35 40 45

Pro Gln Leu Asp Gln Ile Pro Val Ser Leu Phe Leu Thr Ser Leu Cys
 50 55 60

Trp Thr Thr Tyr Leu Gln Arg Gln Lys Lys Asp Lys Ser Asn Asn Pro
 65 70 75 80

Thr Val Ile Leu His Lys Ser Met Thr Lys Leu Pro Leu Gln Lys Leu
 85 90 95

Asn Ser Ser Ser Leu Asn Phe Leu Thr Ile Thr Trp Lys Ser Ala Thr
 100 105 110

Met Val Asn Cys Gln Thr Cys Thr Ala Ser Gln Pro Thr Leu Tyr Thr
 115 120 125

Asn Lys Gly Gly Leu Tyr Ser Asp His Tyr Trp Asn Lys Leu Ser Leu
 130 135 140

Pro Asn Val Ser Ser His Pro Leu Asn Tyr Leu Leu Leu Leu Tyr Phe
 145 150 155 160

Tyr Thr Ala Ile Lys Leu Lys Leu Leu Lys His Asn Phe Ala His Val
 165 170 175

Gln Asn Phe Tyr Ser Val Pro Gln Gln Ser Leu Thr Asn Pro Gln Asn
 180 185 190

Leu Pro Thr Asn Leu Phe Leu Thr
 195 200

<210> 144
 <211> 170
 <212> PRT
 <213> Homo sapiens

<400> 144

Val Ile Pro Ser Ser Val Cys Pro Thr Val Gly Leu Pro Asp Thr Asp
 1 5 10 15

Ser Thr Thr Leu Val Ile Cys Asp Phe Leu Phe Thr Gly His Glu Lys
 20 25 30

Pro Phe Thr Asp Trp Leu Gln Cys Ala Ser Leu Pro Tyr Gln Leu Leu

00100US1.ST25

35

40

45

Phe His Thr Asn Ser His Leu Val Asn Trp Val Pro Cys Ser Ala Lys
50 55 60

Met Cys Phe Ser Ala Gln Val Ile Leu Tyr Thr Pro Ile Leu Asn Leu
65 70 75 80

Leu Cys Ala Ser Gln Ser Thr Ile Phe Gln Ser Gln Leu Lys Pro Phe
85 90 95

Ile Ile Gln Tyr Gly Phe Ser Pro Gln Ser His Val Lys Val Ser Pro
100 105 110

Cys Phe Phe Gln Thr Val Val Ala Leu Thr Gly Leu Leu Leu Gly Tyr
115 120 125

Lys Leu Thr Leu Tyr Phe Ser Ile Phe Ser Leu Pro Trp Ser Lys Arg
130 135 140

Lys Ile Arg Ser Met Asn Leu Arg Thr Tyr Lys Leu Leu Val Glu Gln
145 150 155 160

Gly Leu Asp Ile Val Cys Ile Asp Ser Arg
165 170

<210> 145

<211> 214

<212> PRT

<213> Homo sapiens

<400> 145

Met Gly Thr Ala Leu Phe Lys Val His Phe Pro Asp Ser Ala Val Leu
1 5 10 15

Phe Ser Ser Ser Ile Pro Thr Asn Ser Gly Leu Gln Ala Phe Pro Leu
20 25 30

Leu Ser His Ser Ile Leu Pro Glu Pro Ser Ile Lys Ala Pro Thr Ile
35 40 45

Leu Pro Ser Gly Gly Ala Ile Phe Leu Ser Phe Pro Glu Arg Trp Asp
50 55 60

Pro Leu His Phe Thr His Leu Ser Pro Arg Pro Ser Thr Cys Leu Ala
65 70 75 80

Gln His Ser Asn Ile Asn Pro Val Glu Ile Asn Cys Gly Ile Ala Trp
85 90 95

Phe Pro Trp Met Val Ile Gln Val Val His Cys Thr Thr Met Cys Asn
100 105 110

Ile Pro Gly Lys Arg Gln Lys Phe Ile Asp Trp Leu Gly Val Leu Asn
115 120 125

Ser Gln Gly Lys Leu Phe Asp His Cys Met Pro Ser Thr Trp Glu Asn
130 135 140

His Ile Pro Gln Leu Leu Arg Pro Tyr Cys Met Val Thr Trp Gly Asn
145 150 155 160

Ile His Thr Val Ser Pro Ala Leu Ser Ala His Lys Gly Asp Ile Val
165 170 175

00100US1.ST25

Gln Arg Gly Asn Leu Ser Leu Pro Ser Thr Ser Leu Phe Leu Thr Pro
 180 185 190

Lys Ser Leu Ser Leu Leu Thr Lys Asp Ile Ser Ala Ser Ala Ile Leu
 195 200 205

Phe Ala Glu Trp Arg Ile
 210

<210> 146

<211> 200

<212> PRT

<213> Homo sapiens

<400> 146

Arg Ile Ser Gln Lys Cys Cys Val Leu Leu His Pro Leu Trp Gln Leu
 1 5 10 15

Phe Val Tyr Leu Ser His Ala Gly Glu Val Asn Thr Asp Pro Leu Val
 20 25 30

Lys Met Met Ser Asp Ile Phe Phe Ser Ala Ala Asn Leu Ser Ile Phe
 35 40 45

Ser Phe Val Ile Met Gly Ile Leu Trp Lys Val Thr Trp Arg Leu Cys
 50 55 60

Lys Ile Tyr Ser Ser Gln Phe Tyr Leu Pro Val Leu Ala Ser Ile Asp
 65 70 75 80

Val Ser Cys Leu Ser Leu Leu Ala Gln Phe Ala Lys Cys His Tyr Leu
 85 90 95

Pro Phe Ser Ser Met Arg Cys Met Tyr Val Tyr Met Tyr Ile Cys Ile
 100 105 110

Asp Ile Ser Val Tyr Leu Glu Thr Tyr Ile Asp Glu Leu Ser Ile Thr
 115 120 125

Met Ile Ile Tyr Phe Asp Val Gln Val Val Pro Asp Leu Thr Ser Asp
 130 135 140

Ser Phe Leu Asn Leu Met Tyr Gln Asp Val His Lys His Val Phe Phe
 145 150 155 160

Pro Cys Pro Asn His Pro Gly Val Gly His Leu Ser Lys Met Ser Cys
 165 170 175

Phe Cys Leu Leu Arg Trp Arg Ser Gly Ile Gln Lys Ser Arg Ser Val
 180 185 190

Cys Leu Val Cys Phe Ile Ala Ile
 195 200

<210> 147

<211> 191

<212> PRT

<213> Homo sapiens

<400> 147

Tyr Leu Ile Leu Lys Tyr Ile Ile Met Lys Ser Ile Asn Val Ser Arg
 1 5 10 15

00100US1.ST25

Gln Arg Ser Tyr Ile Pro Lys Ile Gly Asn Asn Cys Val His Met Cys
 20 25 30
 Tyr His Thr Ile His Pro Ile Leu Leu Tyr Leu Asn Phe Pro Lys Gln
 35 40 45
 Pro Val Val Lys Gln Leu Val Met Arg Thr Asn Glu Lys Leu Pro Glu
 50 55 60
 Ile Ser Asp Ser Ser Cys Thr Tyr Phe Thr Pro Glu Val Trp Glu Phe
 65 70 75 80
 Thr Glu His Asn Val Arg Phe Phe Ser Ile Ser Tyr Pro Leu Pro Lys
 85 90 95
 Ile Val His Lys Ile Gln Asn Ile Ser Ser Leu Thr Phe Leu Glu Cys
 100 105 110
 Asn His Thr Leu Asp Asn Tyr Phe Arg Leu Leu Asn Gly Lys Arg Thr
 115 120 125
 Gly Arg Arg Val Lys Val Thr Cys Phe His Leu Ser Tyr Phe Arg Leu
 130 135 140
 Thr Ser Lys Ser Phe Phe Thr Leu Phe Leu Ile Leu His Arg Pro Phe
 145 150 155 160
 Leu Val Lys Ser Ala Asp Ser Lys Tyr Lys Ala Asn Ala Tyr Ser Tyr
 165 170 175
 Val Ile Phe Met Phe Phe Lys Asn Asn Met Val Leu Thr Ser Ser
 180 185 190
 <210> 148
 <211> 193
 <212> PRT
 <213> Homo sapiens
 <400> 148
 Gly Leu Ser Glu Gly Glu Ala Ser Leu His Leu Asp Phe Phe Leu Lys
 1 5 10 15
 Ile Thr Thr Ile Met Asn Thr Ala Ala Thr Ser Leu Leu Cys Thr Arg
 20 25 30
 Gly Ile Ile Leu Gly Val Ser Val Tyr Ala Tyr Pro Glu Ile Ser Ser
 35 40 45
 Phe Leu Leu Arg Gly Glu Val Leu His Ile Asp Phe Ile Val Arg Asn
 50 55 60
 Gly Lys Ile Phe Asn Lys Cys Ile Arg Ala Thr Thr Phe Ser Ala Leu
 65 70 75 80
 Gln Pro Ala Ser Pro Pro Ser Arg Gln Asp Ile Met Asn Pro Leu Phe
 85 90 95
 Gly Lys Ala Ala Glu Lys His Val Leu Gln Thr Tyr Tyr His Leu Val
 100 105 110
 Asn Asn Ser Gln Trp Thr Asp Gln Asn Ser Arg Arg Phe Pro Leu Ser
 115 120 125

00100US1.ST25

Leu His Cys Thr Asp Ala Ala Thr His Ala His Ile Pro Leu Asn Leu
130 135 140

Pro Val Thr Thr Ala Gln Arg Gln Leu Ser Ser Trp Ala Gln Asn His
145 150 155 160

Trp Gly Thr Phe Trp Gln Leu Ala Asn His Cys Ala Gln Arg Gln Ser
165 170 175

Gln Phe Thr Leu Pro Gln Arg Gly Thr Glu Tyr Thr Ala His Pro His
180 185 190

Leu

<210> 149

<211> 195

<212> PRT

<213> Homo sapiens

<400> 149

Ile Leu Asp Ser Phe Arg Asp Phe Leu Glu Gln Gly Gln Glu Ser Phe
1 5 10 15

Leu Asp Lys Val Arg Ser Asp Leu Ser Gln Gly Arg Ser Ile Phe Ser
20 25 30

Tyr Thr Arg Arg Asn Phe His His Lys Gln Cys Pro Lys Asp Ala Cys
35 40 45

Tyr His Phe Tyr Ser Met Leu Phe Ser Val Phe Trp Pro Ile Leu Leu
50 55 60

Glu Ile Gln Val Arg Lys Met Thr Lys Gly Ile His Glu Thr Arg Ser
65 70 75 80

Leu Phe Arg Arg Trp Tyr Asp Cys Leu Ser Arg Lys Lys Glu Met Thr
85 90 95

Pro Ser Phe Trp Glu Phe Thr Asn Ser Gly Trp Val Leu Asp Lys His
100 105 110

Leu Lys Asn Gln Ser Phe Pro Cys Val Ala Ala Ile Thr Ile Lys Met
115 120 125

Glu Met Arg Ser Gly Ala Val Asn Ile Gln Gln Glu Leu Leu Ile Cys
130 135 140

Arg Pro Asp Lys Ser Pro Pro Glu Trp Thr Pro Ala Arg Glu Gly Arg
145 150 155 160

Ser Leu Glu Gly Arg Arg Glu Asp Thr Glu Asp Leu Pro Leu Pro Gln
165 170 175

Glu Ala Pro Arg Glu Arg Ala Thr Thr Val Tyr Ser Ser Arg Leu Trp
180 185 190

Gly Asp Ser
195

<210> 150

<211> 168

<212> PRT

<213> Homo sapiens

<400> 150

Leu Lys Ser Ser Gln Gln Pro Ser Asn Arg Tyr Leu Ser Leu Ile Pro
 1 5 10 15
 Tyr Pro Cys Ser Ala Ser Pro Pro Ile Thr Met Ala Glu Glu Phe Lys
 20 25 30
 Pro Leu Ser Lys Ala Ser Thr Val Ile Cys Pro Leu Asp Pro Ile Pro
 35 40 45
 Ser Ile Phe Leu Phe Ile Glu Thr Phe Ser Met Val Phe Lys His Thr
 50 55 60
 Leu Leu Ser Leu Leu Leu Asn Arg Gln Met Gln Leu Ile Lys Leu Phe
 65 70 75 80
 Phe Ser Leu Gly Tyr Cys Pro Ile Ser Leu Leu Pro Phe Met Ala Glu
 85 90 95
 Leu Leu Glu Arg Val Phe His Asn His Phe Ile Ser Thr Pro Leu Thr
 100 105 110
 Asp Phe Thr Gln Leu Glu Glu Glu Glu Gly Thr Leu Ile Pro Lys Cys
 115 120 125
 Pro Ile Lys Pro Asn Pro Leu Lys Val Leu Cys Cys His Asp Gly Cys
 130 135 140
 Glu His Gly Glu Lys Ile Leu Glu Asp Val Gly Asn His Asp Arg Glu
 145 150 155 160
 Thr Glu Lys Val Val Lys Gly Phe
 165

<210> 151

<211> 121

<212> PRT

<213> Homo sapiens

<400> 151

Thr Gly His Pro Arg Leu Pro Pro Thr Leu Lys Gln Pro Ala Arg Gln
 1 5 10 15
 Cys Val Thr Tyr Gly Phe Asn Ser Asp Glu Glu Asp Ser Ser Trp His
 20 25 30
 Gly Leu Leu Arg Thr Leu Asn His Lys Val Ser Arg Asp Arg Arg Thr
 35 40 45
 Val Pro Thr Ala Ala Thr Pro Arg Trp Val Cys Ser Pro Val Ala Thr
 50 55 60
 Leu Lys Phe Leu Lys Thr Phe Tyr Gly Val Leu Leu Cys His Leu Gly
 65 70 75 80
 Trp Ser Ala Val Thr Cys Leu Ile Pro His Leu Ala Glu Thr His Arg
 85 90 95
 Arg Ser Leu Val Arg Thr Arg Glu Gly Ala Gly His Ser Gly Ser Cys
 100 105 110
 Gln His Phe Gly Arg Leu Arg Gln Glu

115

120

<210> 152
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 152

Leu Val Ala Ile Ser Leu Lys Phe Phe Phe Cys Arg Lys Ile Ser His
 1 5 10 15

Arg Trp Leu Ile Ile Cys His Ile Lys Pro Leu Arg Lys Lys Gly Trp
 20 25 30

Gln Met Leu Leu Leu Val Arg Leu Leu Cys Tyr Glu Ile Trp Val Lys
 35 40 45

Cys Ala Gly Val Thr Glu Glu Gly Glu Phe Leu Ser Pro Ser Arg Ile
 50 55 60

Glu Glu Asn Gly Val Arg Asp Arg Glu Gln Leu Ala Arg Lys Ala Gln
 65 70 75 80

Gly Val Asn Leu Thr Arg Lys Phe Lys Gln Trp Leu Leu Leu Tyr Ser
 85 90 95

Leu Phe Val Gln Ile Leu Lys Met Lys Leu Phe Ile Lys Phe Ile Val
 100 105 110

Val Phe Leu Asn Ser Met Arg Asn Gly Arg Asn Leu Arg Tyr Cys Ser
 115 120 125

Lys Gly Ser Ser Ala Pro Asn Leu Phe Leu Thr Lys Phe Ile Leu Leu
 130 135 140

Pro Lys Val Ser Pro Asn Val Thr Pro Thr Ser Ile Arg Gln Glu Tyr
 145 150 155 160

Cys Asn Glu Ala Met Thr Ile His Asn Leu Leu Ser Ile Lys Gln Val
 165 170 175

His Glu Arg Phe Cys Asn Asn Thr Leu Cys Lys Ser Leu Trp Asn Asn
 180 185 190

Asn Lys Ile Asp Val His Phe Met Tyr Tyr Cys Ile Leu His Ile Leu
 195 200 205

Arg His Glu
 210

<210> 153
 <211> 173
 <212> PRT
 <213> Homo sapiens

<400> 153

Val Asp His Trp Ile His Leu Asp Met Phe Lys Met Phe Thr Tyr Gly
 1 5 10 15

Val Leu Ile Leu Leu Gly Pro Glu Asn Ala Tyr Ser Gly Ile Leu Leu
 20 25 30

Ser Ser Gly Lys Arg Ala Pro Phe Ser Pro Asn Leu Lys Asp His Glu

35

40

45

Asn His Leu Lys Cys Leu Leu Glu Val Arg Ile Pro Gln Pro Val Trp
 50 55 60

Gly Pro Ala Ile Cys Ile Phe Lys Glu Thr Trp Thr Val Thr Cys Glu
 65 70 75 80

Lys Pro Tyr Ala Gln Tyr Val Leu Ala Ile Arg Ile Thr Met Val Asn
 85 90 95

Ile Asn Tyr Leu Phe Arg Glu His Lys Phe Leu Leu Thr Gln Leu Asn
 100 105 110

Ala Lys Cys Phe Lys Ser Lys Thr Pro Cys Leu Lys Asn Ile Gly Phe
 115 120 125

Phe Phe Lys Gln Tyr Lys Thr Gly Tyr Leu Ser His Glu Phe Gly Ala
 130 135 140

Pro Asn Ser His Cys Phe Gln Thr Ile Ser Gln Glu Arg Ser Leu Gln
 145 150 155 160

Ser Pro Pro Val Ala Ser Ile Ala Leu Cys Val Leu Lys
 165 170

<210> 154

<211> 172

<212> PRT

<213> Homo sapiens

<400> 154

Gln Ile Leu Gly Ser Lys Arg Arg Lys Met Ser Arg Met Lys Arg Tyr
 1 5 10 15

Leu Ile Ile Ser Ser Ala Asp Phe Leu Gly Asn Val Phe Ile Pro Ile
 20 25 30

Phe Ile Thr Tyr Val Val Lys Asp Ser Phe Ser Gly Leu Tyr Ile Gln
 35 40 45

Leu Phe Glu Tyr Ile Tyr Asn Asn Ile Tyr Ser Cys Leu Ile Gly Asn
 50 55 60

Phe Asn Asn Tyr Gln Asn His Lys Glu Ile Phe Phe Ala Cys Phe His
 65 70 75 80

Tyr Phe His His Phe Gly Ile Cys Tyr Val Val Lys Lys Tyr Ser Glu
 85 90 95

Lys Thr Ile Ile Leu Lys Ser Cys Cys Ile Asn Arg Ile Trp Gly Lys
 100 105 110

Glu Gln Thr Thr Lys Arg Gly Arg Leu Met Ser Leu Val Gly Thr Trp
 115 120 125

Glu Val Thr Leu Ile Ser His Phe Leu Asn Leu Lys Glu Glu Lys Val
 130 135 140

Lys Leu Ile Asn His Ser Thr Gln Lys Asn Thr Phe Trp Thr Ile Lys
 145 150 155 160

Asp Ser Ala Ile Tyr Met Asp Tyr Ile Phe Ile Ser
 165 170

<210> 155
 <211> 231
 <212> PRT
 <213> Homo sapiens

<400> 155

Arg Cys Glu Pro Leu Pro Gly Leu Glu Leu Leu Leu Asp Cys Ile Pro
 1 5 10 15

Arg Gly Asn Phe Met Thr Glu Phe Arg Ser Ala His Ile Leu Ala Ala
 20 25 30

Ser Lys Arg Glu Arg Glu Ser Pro Ala Leu Ile Ser Val Ile Phe Leu
 35 40 45

Phe Asp Leu Ile Tyr Ser Ile Asn Thr Pro Gln Glu Gly Thr Phe Pro
 50 55 60

Ser Pro Ala Pro Lys Gln Asn Arg Ser Ile Leu Asp Gly Leu Pro Asn
 65 70 75 80

Trp Cys Leu Gln Thr Ser Ser Leu Ser Pro Ser Pro Thr Leu Lys Ser
 85 90 95

Arg Ser Leu Ile Cys Met Gly Cys Ile Ser Thr Leu Met Leu Pro Gly
 100 105 110

Phe Trp Leu Gly Leu Pro Asn Gly Arg His His Trp Arg Arg Met Glu
 115 120 125

Val Gly Gly Gly Arg Trp Glu Gly Arg Gly Trp Gly Ile Val Pro Leu
 130 135 140

Ala Pro Phe Leu Cys Ser Phe Gly Ser Leu Gln His Pro Val Thr Leu
 145 150 155 160

Ser Leu Ser His Gln Val Phe Ile Phe Cys Trp Phe Pro Phe Val Leu
 165 170 175

Pro Thr Phe Thr Thr Cys Pro Phe Leu Lys Asp Pro Ser Ile Ala Leu
 180 185 190

Phe Gly Asn Ile Leu Phe Ser Ala Gly Thr Pro Glu Leu Tyr Arg Arg
 195 200 205

Val Gln Glu Ala Thr Lys Leu Gln Met Pro Thr Thr Trp Trp Asn Arg
 210 215 220

Cys Pro Leu Glu Ala Ala Ala
 225 230

<210> 156
 <211> 160
 <212> PRT
 <213> Homo sapiens

<400> 156

Pro Ile Cys Leu Asn Ala Ser Cys Ser Gly Gly Leu Thr Pro Ile Asn
 1 5 10 15

Pro Ser Cys Leu Trp Lys Gly Leu Pro Thr Glu Leu Asp Ser Asn Ile
 20 25 30

00100US1.ST25

Gln Ser Ser Ser Thr His Pro Phe Ser Trp Thr Leu Trp Gly Pro Arg
 35 40 45
 Gln Gln Thr Ser Cys Leu Phe Tyr Arg Ala Ala Leu Gln Met Ala Gly
 50 55 60
 Ala Thr Val Phe Ser Ala Leu Glu Asp Leu Ser Met Val Val Ser Phe
 65 70 75 80
 His Ile Ser Tyr Asp Phe Tyr Ser Gln Glu Ser Leu Ile Cys Leu Leu
 85 90 95
 Met His Phe His Leu Ser Val Thr Leu Leu Gln Asn Gln Arg Glu Ile
 100 105 110
 Thr Leu Ile Phe Leu Arg Ala Ser Lys Leu Pro Gly Leu Gln Arg Pro
 115 120 125
 Cys Arg Ala His Arg Gln Arg Met Thr Arg Gly His Met Pro Cys Met
 130 135 140
 His Phe His Leu Ser Val Thr Leu Leu Gln Ala Asn Leu Lys Gly Met
 145 150 155 160
 <210> 157
 <211> 225
 <212> PRT
 <213> Homo sapiens
 <400> 157
 Val Pro Leu Val Asn Pro Glu Tyr Asn Ile Phe Tyr Lys Thr Cys Phe
 1 5 10 15
 Ile Leu Ser Gly Met Arg Cys Ile Phe Glu Gly Leu Leu Lys Leu Ala
 20 25 30
 Ile Thr Ile Arg Leu Leu Leu Asn Leu Gly Ile Ser Leu Pro Ser Cys
 35 40 45
 Gln Gly Leu Tyr Leu Met Phe Val Ser Leu Lys Lys Lys Arg Asn Gln
 50 55 60
 Thr Asp Tyr Thr Leu Leu Lys Thr Glu Asp Met Tyr Phe Asn Met Ser
 65 70 75 80
 Leu Leu Pro Val Ile Gln Ser Leu Lys Phe Gln Asn Pro Ser Gly Thr
 85 90 95
 Leu Cys Gly Pro Trp Ile Lys His Thr Trp Ala Tyr Glu Cys Val Asp
 100 105 110
 His Trp His Met Arg Gly Asn Cys Leu Leu Gly Tyr Val Ala Leu Pro
 115 120 125
 Leu Ser Ile Tyr Asn Ser Asn Val Ser Glu Arg Ser Ser Ser Leu Lys
 130 135 140
 Leu Phe Ser Arg Ile Arg Gln Thr Val Pro Ala Asn Gln Gly Asp Glu
 145 150 155 160
 Phe Trp Pro Met Phe Gly Arg Ser Leu Leu Gln Trp Gly Val Thr Ser
 165 170 175

00100US1.ST25

His Glu Arg Ile Ile Arg Asn Leu Ser Thr Thr Leu Gly Asn Leu Ala
180 185 190

Asn Glu Leu Ala Glu Ala Ile Ala Thr Lys Arg Ser Ser Asp Ser Leu
195 200 205

Asp Arg Ile Val Met Asp Asp Gly Ile Thr Leu Gly Tyr Ile Val Val
210 215 220

Lys
225

<210> 158

<211> 215

<212> PRT

<213> Homo sapiens

<400> 158

Leu Pro His Leu Cys Cys Ser Leu Leu Thr Ile Lys Pro Asp Met Cys
1 5 10 15

Leu Ser Pro Cys Leu Pro Thr His Pro Leu Ile Thr Ser Val Pro Cys
20 25 30

Ser Gln Val Ala Ser Arg Glu Asp Cys Gly Leu Met Ser Ser Phe Met
35 40 45

Pro Trp Leu Leu Leu Ile Arg Ala Leu Tyr Thr Phe Ser Lys Ala Leu
50 55 60

Glu Ser Lys Lys Val Leu Leu Gly Ser Ser Pro Gln Met Gln Phe Met
65 70 75 80

Lys Ser Val Ser Phe Ser Phe Pro Ser Glu Phe Leu Ser Val Ser Ile
85 90 95

Lys Ala Leu Asp Thr Pro Trp Phe Thr Arg Gln Lys Leu Ile His Pro
100 105 110

Thr Gln Pro His Gly Tyr Ser Phe Val Leu Leu Asp Asn Asn His Leu
115 120 125

Arg Lys Pro Asp Leu Phe Pro His Ser Ser Phe Ser Phe Cys Pro Ala
130 135 140

Glu Asn Lys Arg Thr Ser Cys His Ile Val Ile Cys Ser Ala Leu Leu
145 150 155 160

Leu Arg Ser Leu Val Gly Lys Thr Gly Pro Ile Lys Arg Asp Thr Ala
165 170 175

Met Pro Trp Gly Glu Asp Asn Lys Ser Asp Gly Ser Arg Ala Leu Glu
180 185 190

Ser Arg Gly Gly Val Thr Asn Cys Pro Asn Gly Thr Val Pro Ser Glu
195 200 205

Leu Leu His Leu Leu Leu Thr
210 215

<210> 159

<211> 202

<212> PRT

<213> Homo sapiens

<400> 159

Leu Lys Val Lys Lys Glu Tyr Pro Phe Ile Leu Asp Asn Cys Cys Gln
 1 5 10 15
 Arg His Tyr Asn Ile Ser Val Val Ile Pro Tyr Phe Ser Lys Ala Lys
 20 25 30
 Ile Glu Ile Trp Pro Leu Leu Leu Cys Asn Phe Leu Lys Phe Lys Val
 35 40 45
 Ser Val Phe Ser Ile Ile Lys Tyr Ser Ser Leu Lys Leu Met Ala Ile
 50 55 60
 Arg Tyr Ser Ile Val Trp Ile Ile Tyr Leu Arg Phe Cys Gly Leu Phe
 65 70 75 80
 Cys Phe Gln Asn Asn Thr Lys Ile Asn Ile Phe Val Cys Lys Tyr Phe
 85 90 95
 Thr Lys Ile Tyr Ser Glu Lys Phe Leu Lys Val Glu Phe Leu Gly Glu
 100 105 110
 Val Thr Phe Lys Cys Leu Ile His Leu Leu Ser Gly Lys Thr Val Arg
 115 120 125
 Phe Leu His Ser His His Ser Val Tyr Gly His Gln Leu Thr Val Phe
 130 135 140
 Phe Pro Thr Leu Leu Ile Phe Ser Leu Ser Met Trp Ile Lys Phe Gly
 145 150 155 160
 Phe Tyr Tyr Phe Asn Leu Tyr Ser Ile Thr Leu Leu Ala Ile Ser Leu
 165 170 175
 Gly Val Val Asn Ile Cys Pro Cys Pro Phe Leu Phe Gly Met Leu Ser
 180 185 190
 Leu Met Thr Asn Cys His Asn Val Ile Asn
 195 200

<210> 160

<211> 215

<212> PRT

<213> Homo sapiens

<400> 160

Asn Ile Ser Phe Leu Ser Leu Lys Met Ala Val Ser Cys Val Leu Ile
 1 5 10 15
 Asn Leu Lys Ile Asn Leu Ser Ile Gly Glu Ala Gly Lys Leu Ala Trp
 20 25 30
 Lys Val Asn Leu Leu Ser Arg Gly Lys Ile Ser Trp Ala Leu Ile Lys
 35 40 45
 Val Asp Ile Phe Arg Gly Gly Lys Ser Lys Phe Tyr His Thr Leu Ala
 50 55 60
 Phe Val Gln Phe Ser Pro Leu Phe Ser Leu Tyr Tyr Leu Phe Phe Cys
 65 70 75 80
 Phe Thr Leu Gly Lys Ala Asn Tyr Leu Phe Ser His Ile Phe Trp Gly

85

90

95

Pro Ile Leu Met Ile Leu Ile Phe Phe Ser Cys Leu Thr Cys Arg Pro
 100 105 110

Ser Thr Glu His Cys Arg Ala Ser Ser Gln Arg Ser Ser Gly Asp Glu
 115 120 125

Leu Ser Phe Leu Gly Trp Asp Cys Cys Ala Gly Leu Asp Arg Thr Glu
 130 135 140

Asn Cys Arg Asp Lys Tyr Thr Tyr Glu Gln Thr Ser His Leu Phe Ile
 145 150 155 160

Lys Ala Leu His Trp Leu Trp Lys Thr Ala Val Gly Leu Arg Lys Leu
 165 170 175

Asn Phe Leu Gly Ile Phe Val Leu Asn Ile Glu Arg Glu Arg Arg Arg
 180 185 190

Phe Leu Phe Lys Arg Val Tyr Glu Thr Leu Ser Leu Lys Ser Asn Leu
 195 200 205

Met Thr Gly Cys Met Cys Ser
 210 215

<210> 161
 <211> 199
 <212> PRT
 <213> Homo sapiens

<400> 161

Lys Ile Gln Ile Leu Cys His Ser Pro Ala Tyr Leu Leu Thr Leu Pro
 1 5 10 15

Leu Leu Ser Lys Phe Ile Ile Leu Thr Val Val Val Asn Ala Leu Leu
 20 25 30

Ser Val Pro Cys Pro Phe Val Tyr Thr His Leu Val Leu Leu Ser Phe
 35 40 45

Phe Ile Asn Met Leu His His Thr Val Ile Phe Leu Leu Ile Phe Phe
 50 55 60

Lys Lys Val Trp Asn Ile Ser Phe Pro Leu Cys Val Leu Cys Asn Leu
 65 70 75 80

Ser Asp Lys Thr Thr Cys Tyr Ile Phe Ser Thr His Asn Phe Ile Ser
 85 90 95

Gly Leu Cys Ala Leu Tyr Lys Ser Thr Asn Leu Ser Val Trp Ser Val
 100 105 110

Leu Ser Ser Pro Gly Gln Ile Leu Ile Ile Cys Gln Glu Cys Asn Ser
 115 120 125

Ile Ile Ser Ser Val Thr Gln Phe Ser Lys His Arg Ile Leu Cys Val
 130 135 140

Pro Ile Ala Leu His Trp Ile Gly Pro Gln Phe Cys Gln Cys Ile Ile
 145 150 155 160

Arg Thr Tyr Leu Gln Val Leu Ser Leu Leu Leu Trp Arg Glu Pro Phe
 165 170 175

Ser His Met Asn Cys Asp Phe Val Tyr Leu Ala Pro Thr Met Val Leu
 180 185 190

Asn Ser Trp Val Leu Gly Lys
 195

<210> 162
 <211> 213
 <212> PRT
 <213> Homo sapiens

<400> 162

Tyr Trp Phe Asn Lys Leu Trp Tyr Asn Gln Ile Met Lys Leu Tyr Ala
 1 5 10 15

Phe Val Lys Val Thr Phe Gln Lys Asn Ile Leu His Arg Ile Thr Asp
 20 25 30

Pro Ser Ala Leu Pro Thr Leu Trp Ala Leu Ser Leu Phe His His His
 35 40 45

Tyr Leu His His Cys Leu Gln Val Phe Tyr Thr Ala Arg Val Gly Leu
 50 55 60

Cys Leu Leu Asn Ser Gln Val Lys Arg Gly Arg Lys Leu Thr Pro Ser
 65 70 75 80

Gly Gly Ser Leu Gly Met Ile His Gly Arg Trp Ser Ile Asn Thr Ser
 85 90 95

Ala Leu Phe Pro Leu Glu Ile Leu Arg Asn Gly Phe Tyr Ile Val Ser
 100 105 110

Gln Ser Phe Leu Lys Val Leu Asn Phe Asn His Pro Gln Gly Trp Ala
 115 120 125

Leu Ser Tyr Thr Ser Phe Val Ala Ser Leu Pro Ser Cys Leu Thr Ser
 130 135 140

Pro Phe Gln Thr Arg Ile Tyr Phe Phe Ser Leu Lys Gln Asn Lys Met
 145 150 155 160

Phe Asn Leu Lys Pro Leu Gln Asn Thr Asn Leu Tyr Leu Lys Asn Leu
 165 170 175

Asn Ile Gly Glu Asn Glu Thr Val Tyr Ala Gln Val His Asp Trp Trp
 180 185 190

Arg Leu Lys Ser Ser Lys Ile Phe Leu Lys Gly Tyr Pro Ser Arg Arg
 195 200 205

Leu Asn Cys Leu Ile
 210

<210> 163
 <211> 236
 <212> PRT
 <213> Homo sapiens

<400> 163

Leu Ala Ser Glu Ser Leu Leu Val Arg Lys Glu Val Val Leu Phe Pro
 1 5 10 15

00100US1.ST25

Leu Gln Ala Lys Ala Phe Gln Val Leu Ser Phe Cys Ser Ile Lys Arg
 20 25 30
 Gln Leu Arg Gly Arg Tyr Pro Gln Glu Phe Pro Asp Ser Cys Thr Asp
 35 40 45
 Leu Ser Ala Glu Ile Ala Glu Val Ser Trp His Leu His Glu His Leu
 50 55 60
 Ser Val Ala Gly Arg Ile Asn Gly Lys Arg Ala Thr Glu Ile Pro Gly
 65 70 75 80
 Ala Lys Ser Ser Ser Glu Ser Pro Ile Phe Asp Gln Glu Leu Val Gly
 85 90 95
 Ser Leu Arg Ile Cys Ile Ser Ser Asp Ser Arg Leu Ser Gly Leu Ser
 100 105 110
 Asn Trp Asp Gln Ser Asn Ser Tyr His Ala Tyr Leu Val Pro Gly Ser
 115 120 125
 Leu Leu Arg Ala Ser Trp Thr Pro Ala Arg Val Ser Pro His Ser Asn
 130 135 140
 His Met Arg Tyr Val Leu Leu Leu Ser Pro Cys Ala Asp Glu Asp Thr
 145 150 155 160
 Arg His Arg Glu Asn Trp Pro Gln Val Tyr Ser Trp Gly Gly Gln Ser
 165 170 175
 Gln Asn Ser Asp Leu Gly Cys Leu Gly Cys Glu Leu Val Trp Ala Ser
 180 185 190
 Met Gly His Arg Gly Arg Ile Ser Trp Arg Ser Arg Thr Glu Gly Lys
 195 200 205
 Arg Asp Glu Ile Ser Asp Ser Ala Gly Ser Glu Thr Leu Ser Ala Met
 210 215 220
 Ile Lys Pro Asp Tyr Gly Thr Cys Phe Ser Leu Ser
 225 230 235

<210> 164
 <211> 193
 <212> PRT
 <213> Homo sapiens

<400> 164

Phe Gln Asp Ile His His Arg Cys Gly Arg Gly Lys Lys Thr Met Gly
 1 5 10 15
 Met Gly Ile Leu Pro Phe Ile Asn Thr Gly His Phe Asn Leu Leu Asn
 20 25 30
 Leu Ser Thr Phe Cys Asn Leu Arg Ile Phe Ile Leu Asp Ser Trp Thr
 35 40 45
 Lys Ala Leu Glu Met Ala Ser Phe Ala Arg Phe Leu Cys Ala Leu Glu
 50 55 60
 Lys Ile Pro Gly Phe Asn Ala Lys Asn Arg Gln Gln Arg Ala Gln Glu
 65 70 75 80

00100US1.ST25

Met Glu Leu Ser Gly Val Leu Leu Gln Leu Arg Thr Val Cys Tyr Ser
85 90 95

Pro Phe Lys Ile Ser Pro Asn Leu Tyr Leu Met Val Lys Asp Val Phe
100 105 110

Phe Phe Leu Leu Glu Glu Lys Val Thr Arg Ile His Gly Ser Gly Leu
115 120 125

Ile Val Leu Leu Leu Met Glu Ile His Lys Gln Phe Leu Lys Tyr Ser
130 135 140

Leu Ala Ser Glu Leu Val Trp Asn Leu Ala Val Tyr Leu Leu Asp Trp
145 150 155 160

Val Thr Thr Ala Val Ala Gly Ser Ile His Tyr Thr Arg Leu Cys Ile
165 170 175

Ser Met Met Ile Val Lys Phe Cys Glu Lys Val Leu His Leu Cys Ser
180 185 190

Leu

<210> 165
<211> 199
<212> PRT
<213> Homo sapiens

<400> 165

Leu Phe Ser Ala Phe Ser Leu Ile Leu His Leu Thr Gly Leu Val Val
1 5 10 15

Asn Ile Leu Lys Val Tyr Val Leu Ile Lys Thr Ser Ser Phe Pro Lys
20 25 30

Glu Lys Lys Ser Gln Phe Gly Leu Val Ser Leu Ser Cys Phe Leu His
35 40 45

Leu Thr Asn Val Ser Phe Ile Tyr Ser Phe Cys Ser Val Thr Phe Arg
50 55 60

Met Ile Leu Met Gly Lys Asn His Gly Ser Tyr Lys Gln Pro Phe Lys
65 70 75 80

Thr Ile Val Ile Leu Cys Ser Val Asp Ser Gly Arg Gly Phe Lys Val
85 90 95

Ile Ile Ser Leu Lys His Cys Val Asn Ile Pro Pro Thr Val Val Pro
100 105 110

Leu Gly Thr Gly Lys Ile Gln Asn Trp Pro Ala Ser Ser Leu Thr Arg
115 120 125

Val Ile Lys Val Arg Leu Leu Tyr Ile Lys Gln His Leu Asn Ala Trp
130 135 140

Cys Val Ala Ala Gly Lys Gln Pro Arg Ser Pro Ser Cys Ile Arg Gly
145 150 155 160

Leu Met Asn Val Ser Ile Ala Val Phe Ala Val Thr Arg Ser Gly Arg
165 170 175

Val Phe Pro Ser Ser Leu Asp Cys Leu Pro Met His Thr Gly Val Cys

180

185

190

Ile Gly Lys Gln Ser Arg Leu
195

<210> 166

<211> 150

<212> PRT

<213> Homo sapiens

<400> 166

Ile Trp Cys Phe His Arg Leu Lys Gly Leu Arg Cys Pro Pro Val Ala
1 5 10 15

Val Ala Cys Gly Ser Leu Cys Ser Cys Leu Pro Ser Trp Ala Gln Tyr
20 25 30

Leu Val Leu Cys Leu Gly Phe Thr Asn Ala Thr Asn Thr Tyr Ala Pro
35 40 45

Thr Leu Cys Gln Val Leu Cys Tyr Met Leu Arg Lys Gln Cys Thr Arg
50 55 60

Trp Ile Arg Phe Ser Ser Leu Trp Cys Pro Ser Ser Gly Lys Asp Arg
65 70 75 80

Leu Ser Val Phe Tyr Gly Gln Ala Tyr Arg Ala Lys Lys Thr Cys Val
85 90 95

Gly Met Gly Gln Gly Arg Tyr Pro Trp Ser Ser Pro Val Thr Gly Ile
100 105 110

Arg Leu Arg Val Ile Val Gly Arg Ala Leu Gln Ala Gly Gly Ser Ala
115 120 125

Cys Ala Arg Val Leu Arg Lys Glu Gly Glu Gln Cys Val Arg Asn Ile
130 135 140

Thr Val Val Ala Thr Gln
145 150

<210> 167

<211> 218

<212> PRT

<213> Homo sapiens

<400> 167

Ile Ile Ile Arg Ile Ile Arg Ile Leu Lys Tyr Pro Asn Asn Gln Val
1 5 10 15

Asn Lys Ala Thr Phe Tyr Gly Ile Ile His Phe Cys Phe Glu Lys Tyr
20 25 30

Thr Leu Phe Lys Tyr Tyr Cys Leu Phe Thr Gln Leu Leu Glu His Ser
35 40 45

Ser Ala Lys Ala Phe Met Ile Phe Thr Asn Leu Ala Phe Ile Phe Ala
50 55 60

Leu Leu Ser Thr Ile Thr Lys Val Ile Thr Thr Cys Ser Pro Thr Asn
65 70 75 80

Tyr Ser Asp Gly Ala Leu Arg Ile Asp Leu Tyr Leu Asn Ile Leu Trp

85

90

95

Tyr Gln Val Phe Leu His Ser Ser Arg Ile Phe His Phe Ala Tyr Ile
 100 105 110

Leu Met Met Ser Ser Arg Ile Ser Ser Leu Thr Tyr Leu Ala Asn Tyr
 115 120 125

Lys Tyr Val Ile Phe Val Lys Tyr Leu Arg Val Cys Ser Ala Ile Tyr
 130 135 140

Leu Val Ile Leu Asn Gln Ile Leu Asn Val Tyr Thr Phe Leu Met Tyr
 145 150 155 160

Asn Phe Gln Phe Phe Arg Met Arg Leu Asn Asn Cys Pro Tyr Tyr Ser
 165 170 175

Phe Ile Thr Thr Leu Ile Tyr Leu Leu Tyr Leu Gln Met Ile Tyr Lys
 180 185 190

Asn Ala Phe Leu Tyr Leu Ser Leu Ser Gln Val Leu His Ser Glu Leu
 195 200 205

Phe Phe Leu Phe Val Phe Leu Arg Tyr Ile
 210 215

<210> 168

<211> 204

<212> PRT

<213> Homo sapiens

<400> 168

Tyr Cys Glu Leu Arg Cys Tyr Ile Ser Glu Cys Asn Glu Trp Asp Ile
 1 5 10 15

Ala His Trp Leu Glu Lys Pro Pro Lys Gln Ala Ala Ser Ala Ile Glu
 20 25 30

Leu Leu Ala Trp Ser Arg His Ser Ala Ser Gly His Gly Asp Asn Ser
 35 40 45

Ser Glu Ile Asn Ser Ser Thr Lys Val Ser Asn Asp Val Ile Ser Ser
 50 55 60

Gln Arg Gln Gly Cys Pro Val Lys Gln Thr Asp Gly Gln Ser Pro Pro
 65 70 75 80

Arg Leu Lys Gly Gly Gly Glu Thr Gly Arg Lys Arg Met Arg Trp Val
 85 90 95

Arg Lys Arg Tyr Asn Leu Arg Val Thr Met Ser Ser Cys Ser Pro Arg
 100 105 110

Trp Gln Trp Val Gly Gly Pro Gly Lys Asp Cys Phe Arg Gln Met Glu
 115 120 125

Gln Cys Met Arg Arg Ser Arg Glu Lys Ser Gln Ile Val Cys Ile His
 130 135 140

Val Leu Gln Asn Arg Glu Ser Asn Arg Tyr Leu Gly Lys Lys Lys Glu
 145 150 155 160

Val Ser Leu Phe Leu Ser Leu Lys Val Gln Lys Trp Ala Phe Pro Gln
 165 170 175

00100US1.ST25

Phe Ile Cys Gln Pro His Glu Val Phe Thr Asp Leu Asp Leu Leu Ile
 180 185 190

Ser Cys Tyr Phe Ile Thr Leu Leu Glu Leu Leu Pro
 195 200

<210> 169
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 169

Lys Val Leu Ile Phe Val Leu Arg Pro Ile Tyr Thr Tyr Lys Cys His
 1 5 10 15

Pro Ser Ile Phe Leu Cys Asn Phe Leu Ser Ala Gly Leu Pro Ser Leu
 20 25 30

Met Cys Val Leu Tyr Phe Pro Tyr Ile Cys Tyr Pro Ile Thr Cys Phe
 35 40 45

Tyr Asn Cys Leu Phe Tyr Phe Pro Phe Phe Ser His Cys Leu His Ala
 50 55 60

Leu Phe Leu Val Leu Asn Ser Ile Thr Leu Ile His Cys Ser Ser Asn
 65 70 75 80

Phe Ile Leu Asn Asn Phe Pro Ile Tyr Leu Asp Ile Tyr Leu Asn Val
 85 90 95

His Ile Ser Pro Leu Ile Glu Val Cys Leu Val Ile Phe Gly Met Met
 100 105 110

Leu Asn Leu Phe Leu Trp Lys Gly Thr Asn Thr Cys Met Phe Met His
 115 120 125

Val Gln Lys Cys Ser His Arg Met Ile Ile Lys Ala Asp Leu Gly Lys
 130 135 140

Lys Thr Ser Leu Ile Phe Ile Phe His Ile Arg Phe Phe Glu
 145 150 155

<210> 170
 <211> 198
 <212> PRT
 <213> Homo sapiens

<400> 170

His Gln Asn Ser Pro Ile Tyr Leu Arg Ile Asn Val Asn Phe Glu Phe
 1 5 10 15

Asp Ile Thr Met Ile Lys Gly Ala Leu Ile Phe Ser Arg Ser Tyr Lys
 20 25 30

Ile Phe Val Asn Glu Leu Ile Gly Arg Ile Cys Leu Leu Lys Ser Glu
 35 40 45

Val Gly Gly Glu Leu Lys Leu Gly Leu Ile Gly Asn Tyr Ile Trp Val
 50 55 60

Met Asn Ala Trp Gly Phe Ile Ile Pro Leu Pro Leu Pro Leu Ser Val
 65 70 75 80

Phe Glu Leu Cys His Cys Glu Asn Ile Val Leu Lys Ala Val Leu Phe
85 90 95

Phe Leu Leu Arg Gly Ser Lys Lys Ser Lys Lys Tyr Thr Gly Leu Ile
100 105 110

Glu Tyr Val Cys Ser Asn Lys Ile Pro Gly Phe Ser Phe Val Leu Ala
115 120 125

Ser Arg Asn Gln Val Gln Phe Val Ser Lys Asp Phe Ala Thr Cys Gly
130 135 140

Gly Lys Leu Leu Gln Asp Leu Ile Val His Ser Gln Arg Leu Ser Ala
145 150 155 160

Ala Arg Gln Ala Ala Phe Tyr Glu Asn Asp Asn Gln Lys Ala Gly Ala
165 170 175

Leu His Thr Gly His Ser Ser Asn Glu Ser Trp Asp Leu Asp His Gly
180 185 190

Ser Leu Thr Trp Ala Ala
195

<210> 171

<211> 176

<212> PRT

<213> Homo sapiens

<400> 171

Leu Lys Val His Val Leu Ile Tyr Ile His Gln Ile Thr Thr Thr Ser
1 5 10 15

Ser Phe Leu Phe Ile Ser Leu Leu Pro Phe Ile Ser Phe Ile His Met
20 25 30

Leu Ser Leu Asn Thr Leu Leu Leu Leu Thr Val Ile Phe Gln Ile
35 40 45

Ser Glu Lys Asn Leu Ile Leu Pro Tyr Ser Thr Phe Leu Met Leu Phe
50 55 60

Leu Phe Tyr Ala Val Leu Phe Asp Ile Ser His Arg Ala Gly Gln Leu
65 70 75 80

Ala Met Asn Tyr Ser Ser Phe Val Cys Gln Lys Ile Ser Leu Phe Leu
85 90 95

Ile Arg Ile Ile Leu Leu Asn Ala Glu Phe Gly Ser Phe Phe Val Ala
100 105 110

Thr Leu His Val Phe Ser Phe Leu Cys Val Cys Met Val Ser Glu Glu
115 120 125

Lys Asp Asn Val Ile Leu Ile Leu Phe Pro Leu Trp Ile Arg Cys Trp
130 135 140

Leu Phe Pro Leu Ser Ser Phe Phe Gln Asp Phe Leu Phe Ser Leu Val
145 150 155 160

Phe Cys Ser Leu Asn Met Ile Cys Leu Gly Gly Asp Leu Asp Leu Leu
165 170 175

<210> 172
 <211> 195
 <212> PRT
 <213> Homo sapiens

<400> 172

Ala Tyr Arg Ile Ser Thr Thr Val Phe Ala Lys Glu Lys Ser Val Val
 1 5 10 15
 Ile Lys Phe Ile Leu Trp Leu Asn Tyr Val Leu Gln Phe Val Gly Pro
 20 25 30
 Val Thr Cys Gly Arg Gln Arg Ala Val Gly His Ser Val Lys Ala Thr
 35 40 45
 Thr Arg Val Leu Ser Ile Glu Ser Leu Cys Ile Met Val Leu Ala Arg
 50 55 60
 His Cys Ser Leu Thr Ser Ile Phe Leu Ser Gln Ser Ser Leu Arg Asn
 65 70 75 80
 Ala Cys Ser Thr Gly Leu Ile Ile Leu Thr Glu Thr Ser Gly His Phe
 85 90 95
 Met Ser Tyr Gly Met Leu Ala Glu Asp Ile Lys His Arg Cys Val Gly
 100 105 110
 Ile Gly Gly Glu Ser Thr Ala Ile Phe Gln Leu Gly Ala Pro Trp Phe
 115 120 125
 Pro Glu Ile Gln Ser His Gly Val Asn Gln Thr Pro Leu Ser Gly Ala
 130 135 140
 Leu Cys Ser Thr Gln Asp Pro Thr Leu Ser Gly Lys Leu Lys Thr Lys
 145 150 155 160
 Ser Leu Leu Tyr Ile Arg Phe Ile Lys Asn Ala Thr Ile Thr Lys Ser
 165 170 175
 Leu Trp Ala Cys Val Glu Asn Ala Val Ile Lys Leu Asn Ile Lys Ala
 180 185 190
 Ser Ser Lys
 195

<210> 173
 <211> 225
 <212> PRT
 <213> Homo sapiens

<400> 173

Gln Arg Leu Thr Tyr Ser Asn Cys Ile Val Asp Trp Ala His Thr Leu
 1 5 10 15
 His Val Thr Asn Val Ser Asn Tyr Trp Ile Cys Thr Ala Leu Pro Ala
 20 25 30
 Gly Leu Arg Met Ala Cys Leu Gly Thr Tyr Ile Leu Cys Leu Gln Arg
 35 40 45
 Thr Gly His Gly Trp Arg Leu Gly Gly Pro Met Ala Asp Ala Trp Asn
 50 55 60

00100US1.ST25

Ala Thr Trp Gln Leu Trp Thr Lys Asp Ala Ala Arg His Met Val Cys
65 70 75 80

Pro Thr Pro Gly Trp Pro Ile Ala Phe Met Met Gly Leu Ala Ser Gly
85 90 95

Glu His Val Val Leu Pro Ala Gln Val Pro Gln Cys Ile Glu Gln His
100 105 110

Trp Gly Asn Thr Thr Val Gly Trp Val Pro Val Thr Ala Phe Ala Asn
115 120 125

Ile Thr His Val Thr Thr Lys Val Arg Pro Leu Thr Leu Cys Pro Leu
130 135 140

Gly Val Tyr Gly Ser Val Gly Thr Gln Ser Arg Phe Thr Tyr Pro Thr
145 150 155 160

Ala Leu Asp Ile Val Pro Gly Gly Gly Leu Met Cys Leu Pro Leu Phe
165 170 175

Ser Pro Cys Cys Pro Asp Ala Arg Ile Thr Gly Arg Cys Tyr Thr Leu
180 185 190

Ser Leu Cys Glu Cys Asn Glu Pro Pro Ala Val Leu Pro Phe Gly Ser
195 200 205

Asp Tyr Pro Trp Ser Gly Cys His Asn Cys Arg Ser Thr Gly Tyr Cys
210 215 220

Ser
225

<210> 174
<211> 169
<212> PRT
<213> Homo sapiens

<400> 174

Phe Met Ile Gln Gln Ile Lys Cys Gly Asn Tyr Leu Lys Arg Lys Lys
1 5 10 15

Lys Asn Ile Trp Glu Ala Ala Glu Met Arg Thr Ile Arg Asn Glu His
20 25 30

Phe Tyr Phe Leu Ser Phe Leu Asn Gly Ala Ser Asp Ala Val Phe Ile
35 40 45

Ala Leu Phe Phe Pro Asn Trp Asn Ile Phe Phe Leu Ile Leu Leu Val
50 55 60

Tyr Ser Leu Val Thr Lys Lys Val Phe Arg Lys Tyr His Asn Phe Pro
65 70 75 80

Asn Ser Leu Leu Ser Ala Gly Asp Tyr Glu Tyr Ile Leu Gln Asn Gly
85 90 95

Lys Gly Gly Ser Ser Gly Pro Ala Thr Ile Cys Ile Leu Lys Asp Leu
100 105 110

Val Glu Leu Lys Ser Gln Arg Lys Trp Glu Glu Leu Ser Lys Tyr Phe
115 120 125

Ile Ile Phe Phe Leu Glu Tyr Gln Val Leu Ile His His Ile Phe His

bioRxiv preprint doi: <https://doi.org/10.1101/2021.03.18.436888>; this version posted March 18, 2021. The copyright holder for this preprint (which was not certified by peer review) is the author/funder, who has granted bioRxiv a license to display the preprint in perpetuity. It is made available under aCC-BY-NC-ND 4.0 International license.

130

135

140

His Val Ser Lys Ser Phe Phe Leu Lys Lys Val Cys Ile Tyr Ile Ser
 145 150 155 160

Lys Arg Val Ser Val Val Lys Lys Asn
 165

<210> 175
 <211> 199
 <212> PRT
 <213> Homo sapiens

<400> 175

Glu Asn Thr Tyr Gly Lys Glu Leu Ser Val Arg Phe Gly Ser Gln Ile
 1 5 10 15

Leu Ile Phe Asn Lys Ile Tyr Ile Cys Ser Pro Cys Thr Lys Gly Asn
 20 25 30

Ser Thr Glu Ser Met Pro Asn Ser Lys Gly Met Thr Leu Asn Leu Tyr
 35 40 45

Ser Lys Tyr Ile Gly Pro Ala Ile Leu Cys Gln Met Leu Tyr Leu Tyr
 50 55 60

Leu Ile Ala Thr Arg Thr Gly Asn Cys Ala Gln Leu His Leu Arg Thr
 65 70 75 80

Val Ser Ile Leu Lys His Thr Ser Tyr Ser Ser Ser Asp Pro His Trp
 85 90 95

Met Lys Leu Asn Gln Thr Lys Gln Lys Ser Tyr Leu Ser Pro Asn Asn
 100 105 110

Glu Arg Val Cys Arg Met His Ile Val Arg Leu Thr Asp Pro Phe Arg
 115 120 125

Gln Tyr Val Gly Phe Pro Arg Ile Leu Ser Ala Ser Lys Gln Phe Glu
 130 135 140

Phe Ser Ser Ala Leu Met Ile Trp Phe Pro His Leu Asp Gly Pro Gly
 145 150 155 160

Ser Asp Ala Arg Gly Pro His Glu Met Ser Trp Ala Phe Ile Gln Asp
 165 170 175

Pro Val Ala Pro Ala Gln Glu Asn Arg Pro Leu Arg Val Ser Gly Ser
 180 185 190

Glu Met Ala Ser Val Thr Arg
 195

<210> 176
 <211> 204
 <212> PRT
 <213> Homo sapiens

<400> 176

Leu Phe Asn Phe Val Phe Val Ala Val Val Cys Ile His Val Cys Trp
 1 5 10 15

Cys Pro Tyr Val Leu Phe Gly Val Trp Leu Phe Ser Gln Asn Gln Val

20

25

30

Thr Val Lys Ser Leu Asn Phe Ser Ile Ser Leu Leu Ser Ser Gly Thr
 35 40 45

Val Thr Val Cys Leu Leu Leu Lys Ser Phe Val Phe Leu Thr Arg Gly
 50 55 60

Glu Val Tyr Ser Thr Leu Thr Gly Leu Tyr Phe Gly Leu Arg Pro Tyr
 65 70 75 80

Lys Thr Phe Leu Lys Ser Leu Ile Ile Cys His Ile Ile Lys Lys Leu
 85 90 95

Tyr Gly Ile Phe Ser His Tyr Ile Leu Ala Thr Met Pro Val Tyr Ile
 100 105 110

Ser Lys Gln Thr Ile Cys Gly Asn Asn Leu Lys Lys Lys Ala Ile Gly
 115 120 125

Ser Lys Tyr Leu Ile Lys Tyr Pro Leu Glu Leu Asn Ile Ser Ser Cys
 130 135 140

Gly Ser Ser His Thr Lys Tyr Pro Thr Leu Leu Ser Phe Arg Val Leu
 145 150 155 160

Ala Gly Thr Gly Ser Ile Lys Asp Asn Glu Leu Lys Lys Gly Thr Ile
 165 170 175

Tyr Lys Tyr Val Ala Arg Leu Gly Glu Thr Ser Lys Val Gly Asn Ala
 180 185 190

Ala Gln Asp Ser Asn Lys Ser Glu Asn Leu Phe Leu
 195 200

<210> 177

<211> 201

<212> PRT

<213> Homo sapiens

<400> 177

His Val Thr Leu Met Ser Thr Val Phe Ser Ser Val Ala Ser Thr Pro
 1 5 10 15

Leu Pro Asn Ser Tyr Asp Asn Ser Ala Ser Gln Thr Tyr Gly Leu Arg
 20 25 30

Asn Pro Leu Lys Ser Gln Leu Val Met Thr Pro Lys Arg Phe Phe Ile
 35 40 45

Ile Ile Leu Tyr Ile Asn Ile Leu Leu Glu Val His Phe Tyr Glu Asn
 50 55 60

Asn Leu Phe Ser Lys Ile Ser Glu Lys Asn Ser Ile Ile Leu His Ile
 65 70 75 80

Gly Ile Phe Leu Met Pro Gly Leu Ile Glu Asp Asn Ile Phe Met Ser
 85 90 95

Thr Ser Gly Phe Asp Leu Phe Gln Tyr Val Ser Leu Val Glu Ile His
 100 105 110

Glu Gly Asn Leu Gly Ser Ser Asp Ile Leu Glu Lys Gly Gly Val Phe
 115 120 125

00100US1.ST25

Gln Pro Phe Trp Thr Thr Val Asp Ile Val Leu Tyr Tyr Asn Lys Thr
130 135 140

Gly Glu Val Val Gly Ser Lys Leu Val Ala Thr Trp Asn Leu Lys Pro
145 150 155 160

His His Glu Leu Phe Val Ile Trp His Ile Lys Ile Tyr Leu Ser Ile
165 170 175

Leu His Phe Glu Trp Asp Pro Leu Leu Met His Leu Phe Val Thr Ile
180 185 190

Ile Ser Asn Thr Leu Val His Val Met
195 200

<210> 178

<211> 216

<212> PRT

<213> Homo sapiens

<400> 178

Ile Lys Ile Pro Ala Val Lys Leu Asp Ser Ala Cys Leu Gly Ile Phe
1 5 10 15

Lys Arg Ile Met Tyr Arg Gly Cys His Gly Asn Ser Ser Ser Gly Asn
20 25 30

Ser Val Pro Phe Val Lys Thr Leu Lys Gly Glu Asp Lys Gln Phe Gly
35 40 45

Glu Ile Thr Ala Pro Glu Ile Glu Phe Ile Cys Asn Leu Gly Ser Leu
50 55 60

Val Cys Leu Pro Ala Ile His His Val Asp Glu Lys Gln Lys Asp Lys
65 70 75 80

Lys Asp Ser His Phe Lys Ala Pro Asn Cys Gln Phe His Ser Ile Ala
85 90 95

Asp Ser Gln His Arg Arg Lys Trp Asp Asn Ala Gly Arg His Tyr His
100 105 110

Arg Thr Val Ser Ser Lys Glu Lys Pro Asn Cys Tyr Phe Ser Met Ala
115 120 125

Glu Gly Gly Cys Phe Pro Arg Gly Arg Ile Leu Phe Asn Pro Val Arg
130 135 140

Ala Gln Leu Gln Pro Ser Val Thr Gly Gln Leu Pro Pro Ser Asn Pro
145 150 155 160

Glu Gly Arg His Glu Pro Tyr Ser Arg Thr Gly Ala Cys Ser Leu Leu
165 170 175

Ser Thr Ser Cys Thr Phe Arg Ala Pro Ala Trp Asp Ala Glu Asn Ser
180 185 190

His Pro Ser Arg Ala Ala Glu Asp His Met Thr Asp His Gln Leu Phe
195 200 205

Leu Thr His Leu Ser Thr Thr Thr
210 215

<210> 179
 <211> 189
 <212> PRT
 <213> Homo sapiens

<400> 179

```

Ser Gln Asn Phe Asp Leu Thr Asn Gln Arg Gly Gly Leu Val Phe Phe
1          5          10          15
Tyr Leu Leu Ser Ala Phe Cys Phe Arg Leu Leu Asn Leu Tyr Ile Lys
20          25          30
Thr Cys Tyr Thr His Leu Ala Val Phe Phe Phe Ala Ala Val Thr Ser
35          40          45
Phe Trp Leu Arg Phe Phe Phe Lys Lys Met Tyr Lys Thr Leu Gly Leu
50          55          60
Ile His Cys Ser Phe Phe Val Leu Ile His Pro Gln Glu Arg Lys Trp
65          70          75          80
Leu Ser Leu Tyr Val Phe Lys Gly Leu Cys Glu Leu Leu Lys Ala Ser
85          90          95
Val Thr Ala Arg Thr Ser Val His Lys Gln Val Gln Asp Ala Ala Glu
100         105         110
Gly Val Ser Ser Leu Thr Glu Arg Gly Ile Glu Leu Phe Arg Met Phe
115         120         125
Cys Val Gly Thr Asp Arg Leu Lys Ala Thr Asp Leu Met Glu Val Trp
130         135         140
Ser Phe Gln Gln Met Ser Ser Asn Leu Thr Asn Leu Asp Leu Val Phe
145         150         155         160
Pro His Gly Pro Arg Ser Ala Ile Leu Phe Phe Cys Leu His Leu Ile
165         170         175
Ser Tyr Ala His His Cys Ala Asn Ser Arg Leu Phe Ser
180         185

```

<210> 180
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 180

```

Val Ala Ile Cys Gln Val Pro Thr Asp Ile Pro Asn Ile Arg Leu Thr
1          5          10          15
Pro Ser Asn Gln His Pro Glu Phe Lys Val Cys Ile His Phe Leu Tyr
20          25          30
Phe Tyr Cys Ile Arg Ile Ser Leu Asn Ser Ser Val Phe Ser Thr Phe
35          40          45
Ile Tyr Gln Pro Tyr Leu Pro Phe Cys Asn Leu Leu Phe Ser Val Ser
50          55          60
Ile Ile Phe Met Arg Leu Met His Ile Ala Val Tyr Ser Phe Leu Leu
65          70          75          80

```


00100US1.ST25

Leu Tyr Asn Ser Val Ile Pro Gly Met Gly Arg Gly Asn Trp Phe Gln
85 90 95

Asp Leu Cys Gly Leu Gln Asn Pro Ser Met Phe Lys Ser Leu Ile Asn
100 105 110

Glu Ala Val Leu Ala Tyr Asn Leu Cys Thr Phe Leu Arg Thr Leu Ser
115 120 125

Lys Cys Tyr Val Asn Gly Cys Phe Val Ile Cys Ile Ile Phe Ile Val
130 135 140

Met Phe Phe Leu Leu Phe Ser Pro Glu Phe Phe Phe Phe
145 150 155

<210> 181
<211> 219
<212> PRT
<213> Homo sapiens

<400> 181

Val Thr Leu Val Cys Tyr Ser Leu Met Val Arg Ser Leu Ile Lys Pro
1 5 10 15

Glu Glu Asn Leu Met Arg Thr Gly Asn Thr Ala Arg Ala Arg Ser Ile
20 25 30

Arg Thr Ile Leu Leu Val Cys Gly Leu Phe Thr Leu Cys Phe Val Pro
35 40 45

Phe His Ile Thr Arg Ser Phe Tyr Leu Thr Ile Cys Phe Leu Leu Ser
50 55 60

Gln Asp Cys Gln Leu Leu Met Ala Ala Ser Val Ala Tyr Lys Ile Trp
65 70 75 80

Arg Pro Leu Val Ser Val Ser Ser Cys Leu Asn Pro Val Leu Tyr Phe
85 90 95

Leu Ser Arg Gly Ala Lys Ile Glu Ser Gly Ser Ser Arg Asn Gly Arg
100 105 110

Thr Ser Trp Val Ser Ile Gln Leu Gly Gly Arg Asp Ala Gln Gly Thr
115 120 125

Asp Leu Gly Asn Ala Lys Val Lys Leu Gly Lys Asn Glu Leu Gln His
130 135 140

His Gln Gln Leu Val Cys Thr Gln Met Ser Ala Gly Gly Arg Gly Ala
145 150 155 160

Gln Asp Leu Leu Lys Val Ser Cys Cys Lys Gly His Phe Tyr Ile Asp
165 170 175

Val Lys Val Asn Lys Ser Met Glu Arg Ala Thr Lys Thr Lys Glu Asn
180 185 190

Phe Leu Lys Glu Ser His Trp Ser Leu Val Ile Gln Val Ser Ala Gln
195 200 205

Met Ser Pro Leu Arg Asp His Ser Cys Pro Pro
210 215

<210> 182

<211> 181
 <212> PRT
 <213> Homo sapiens

<400> 182

Gln Gly Glu Gly Gly Thr Gly Tyr Lys Arg Ser Ala Ala Ala Pro
 1 5 10 15

Ala Glu Ser Arg Arg Ala Gln His Ser Cys Pro Leu Asp Pro Ala Asp
 20 25 30

Pro Ser Arg Ala Pro Ser Val Pro Gln Ala Gln Pro Pro Gly Gly Arg
 35 40 45

Ala Glu Gly Ser Pro Gly Arg Cys Gln Gly Ala Ile Leu Glu Gly Gly
 50 55 60

Arg Glu Glu Glu Val Arg Ala Ala Met His Thr Val Ala Thr Ser Gly
 65 70 75 80

Pro Asn Ala Ser Trp Gly Ala Pro Ala Asn Ala Ser Gly Cys Pro Gly
 85 90 95

Cys Gly Ala Asn Ala Ser Asp Gly Pro Val Pro Ser Pro Arg Ala Val
 100 105 110

Asp Ala Trp Leu Val Pro Leu Phe Phe Ala Ala Leu Met Leu Leu Gly
 115 120 125

Leu Val Gly Asn Ser Leu Val Ile Tyr Val Ile Cys Arg His Lys Pro
 130 135 140

Met Arg Thr Val Thr Asn Phe Tyr Ile Gly Glu Cys Gly Pro Leu Arg
 145 150 155 160

Arg Thr Cys Cys Arg Pro Gly Gly Leu Arg Gly Pro Ser Gly Leu Gly
 165 170 175

Arg Pro Leu Ala Thr
 180

<210> 183
 <211> 227
 <212> PRT
 <213> Homo sapiens

<400> 183

Ile Ile Leu Gln Asp Asn Leu Lys Gln Tyr Leu Val His Ile Asn His
 1 5 10 15

Phe Ile Ser Ala Gly Leu Leu Ser Phe Glu Asn Tyr Phe Tyr His Leu
 20 25 30

Leu Leu Ala Thr Val Asn Leu Ser Asn Leu Val Ser His His Ser Leu
 35 40 45

Ile Pro Cys Ser Ala Leu Val Thr Met Asn Leu Ser Leu Leu Leu Lys
 50 55 60

Tyr Ala Ile Tyr His Val Phe Phe Phe Pro Phe Ser Leu Pro Glu Ala
 65 70 75 80

His Thr Pro Ser Leu Gly Trp Leu Lys Ser His Asn Leu Thr Phe Gly

85

90

95

Leu Thr Phe Tyr Asn Ser Leu Tyr Gln Pro Gln Asn Met Ala Trp Val
 100 105 110

Met Leu Ala Leu Thr Val Leu Asp Phe Ser Asp Pro Ser Leu Leu Ile
 115 120 125

Tyr Gln Pro Leu Ser Arg Ser Phe Gly Thr Tyr Ser Asp Phe His Thr
 130 135 140

Pro Glu Leu Phe Ala Ile Leu Phe Ile Trp Lys Ser Tyr Trp Val Ile
 145 150 155 160

Phe Leu Phe Lys Tyr Asn Leu Ile Ile Thr Pro Leu Val Tyr Leu Ala
 165 170 175

Leu Ser Cys Ser Leu Tyr Phe Pro Cys Pro His Leu Asn Ser Leu Thr
 180 185 190

Gly Glu Ile Asn Tyr Arg Tyr Thr Lys Gly Pro Asp Ser Lys Arg Asn
 195 200 205

Ile Gly Lys Ile Ser Ser Pro Ser Gln Pro Gly Tyr Gln Ile Lys Asp
 210 215 220

Arg Arg Leu
 225

<210> 184

<211> 191

<212> PRT

<213> Homo sapiens

<400> 184

Pro Pro Thr Asp Ile Ser Val Cys Cys Ser Asp Gln Val Leu Gly His
 1 5 10 15

His Gln Cys Pro Val Val Met Gly His Leu Lys Leu Tyr Leu Tyr Pro
 20 25 30

Ser Ala Leu Leu Leu Asp Leu Leu His His Leu Leu His Met Asp Leu
 35 40 45

Leu His Phe Gly Cys Val Val His His Leu His Thr Leu Pro Asn Lys
 50 55 60

Asn Ile Gln Lys Pro Ser Ser Gln His His Cys Pro Gly His His Ser
 65 70 75 80

Ser Leu Phe Phe Leu Asn Pro Ser Leu His Glu Arg Gln Arg Arg Leu
 85 90 95

Thr Gly Ser Pro Leu Leu Val Asn His Met Lys Ile Lys His Ala Tyr
 100 105 110

Ser Val Leu Val Gln Gln Glu Ile Tyr Phe Gln Thr Arg Lys Ala Thr
 115 120 125

Glu Thr Leu Gly Ile Ile Leu Gly Ala Phe Ile Ile Cys Trp Leu Pro
 130 135 140

Leu Phe Ile Val Ser Leu Pro Ala Lys Ile Pro Pro Tyr Asp Ile Phe
 145 150 155 160

Ile Leu Leu Ser Phe Phe Phe Phe Phe Phe Leu Ile Pro Ser Leu Thr
 165 170 175

Leu Val Ser Gln Ala Arg Met Gln Trp Tyr Asn Leu Ser Ser Leu
 180 185 190

<210> 185
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 185

Ile Leu Pro Ala His Leu Ile Pro Leu Gly Lys Leu Trp Cys Cys Leu
 1 5 10 15

Ser Arg Thr Glu Ala Glu Gly Trp Leu Ser Pro Thr Gly Ser Tyr Ser
 20 25 30

Leu Asn Ser Ala Ser Ser Pro Arg Leu Gly Glu Thr Thr Trp Gly His
 35 40 45

Arg Val Phe Ala Arg Cys His Phe Ala Phe Gln Thr Arg Ser Trp Ser
 50 55 60

Ser Gly Phe Arg Leu Gly Leu Trp Asn Ser Gly Ala
 65 70 75

<210> 186
 <211> 99
 <212> PRT
 <213> Homo sapiens

<400> 186

Cys Arg Ala His His Ser Leu Thr Ser Phe Val Ser Trp Phe Arg Tyr
 1 5 10 15

Asp Leu Pro Tyr Pro Asp His Ser Ile Asn Cys Lys Leu Pro Val His
 20 25 30

Ser Ser Leu Ser Tyr Asn Thr Phe Pro Phe Ser Gln Arg Tyr Cys His
 35 40 45

Phe Val Ser Tyr Tyr Ile Thr Tyr Tyr Val Tyr Cys Leu Leu Arg Ile
 50 55 60

Leu Cys Ser Leu Met Tyr Leu Lys Tyr Leu Gly Gln Cys Ser Val His
 65 70 75 80

Val Thr Gly Val Gln Gln Arg Leu Leu Asn Glu Ile Phe Asp Asn Cys
 85 90 95

Asp Arg Tyr

<210> 187
 <211> 194
 <212> PRT
 <213> Homo sapiens

<400> 187

Ala Glu Gln Val Leu Val Ile Phe Ala Glu Gln Val Leu Asn Glu Cys

1 5 10 15

Met Asn Lys Cys Met Asn Val Glu Met Lys Gly Asp Ala Asp Gly Asp
20 25 30

Asp Ala Asp Gly Asp Asp Asp Ala Asp Gly Asp Asp Ala Asp Gly Asp
35 40 45

Asp Ala Asp Gly Glu Gln Trp Pro Cys Arg Val Phe Ala Asp Leu Gly
50 55 60

Leu Ala Ser Gly Cys Gly Gly Ser Ala Ser Gln Gly Phe Glu Phe His
65 70 75 80

Leu Gln Cys Leu Pro Ala Met Pro Pro Trp Val Thr Phe Ile Leu Leu
85 90 95

Pro Gly Lys Trp Gly Cys Trp Gln Pro Leu Pro Pro Gly Ile Thr Asp
100 105 110

Thr Ala Trp Ser Gly Cys Asp Pro Phe Gly Tyr Arg Arg Gly Trp Trp
115 120 125

Thr Ser Gln Val Gly Arg Ser Ser Leu Asp Glu Arg Pro Arg Thr Ile
130 135 140

His Arg Arg Ala Gln Glu Ser Leu Leu Ser Pro Ser Asn Ser Thr Glu
145 150 155 160

Pro Ala Val Asn Cys Trp Leu Leu Pro Val Thr Phe Pro Cys Pro Tyr
165 170 175

Phe His Ser Leu Glu Ala Ala Arg Thr Thr Ala Gly Trp Pro Trp Pro
180 185 190

Leu Pro

<210> 188
<211> 178
<212> PRT
<213> Homo sapiens

<400> 188

Ser Phe Ser Leu Gly Asn Phe Val Val Ala Ser Leu Tyr Ser Cys Cys
1 5 10 15

Phe Asn Asn Phe Val Leu Phe His Ser Phe Thr Val Thr Val Cys Val
20 25 30

Asp Ser Phe Ser Ser Ser Val Lys Ile Met Ser Pro Glu Ser Ser Phe
35 40 45

Ile Thr Leu Asp Arg Thr Arg Thr Leu Ser Ile Lys Ser Met Leu Phe
50 55 60

Val Ile Thr Glu Gln Phe Ser Ala Val Ile Ser Leu Ile Val Thr Phe
65 70 75 80

Leu Phe Ile Pro Phe Ser Leu Ser Lys Met Pro Leu Phe Val Tyr Trp
85 90 95

Ser His Arg Ser Glu Ile Cys Glu Phe Ala Ile His Val Ser Tyr Leu
100 105 110

00100US1.ST25

Phe Ala Asn Gly Phe His Val Ser Lys Ser Leu Phe Ser Ile Val Arg
115 120 125

Tyr Tyr Leu Tyr Cys Phe Val Gln Asn Ile Asn Leu Val Leu Phe Ile
130 135 140

Asp Tyr Ser Leu Val Leu Leu Leu Asn Phe Ile Gln Glu Cys Val Phe
145 150 155 160

Leu Ser Asp Tyr Phe Phe Leu Pro Asn Cys Ile Phe Leu Arg Gly Leu
165 170 175

Ile Ile

<210> 189

<211> 76

<212> PRT

<213> Homo sapiens

<400> 189

Pro Arg Glu Ala Lys Arg Leu Asp Ile His Ala Pro Leu Leu Ser Leu
1 5 10 15

Pro Asp Cys His Leu Leu Met Ala Ala Ser Val Ala Tyr Lys Ile Trp
20 25 30

Arg Pro Leu Gly Ser Val Ser Asn Cys Leu Asn Pro Leu Leu Tyr Phe
35 40 45

Leu Ser Arg Gly Ala Lys Phe Glu Ser Gly Ser Ser Arg Asn Gly Arg
50 55 60

Thr Ser Trp Val Ser Ile Gln Leu Gly Gly Arg Asp
65 70 75

<210> 190

<211> 189

<212> PRT

<213> Homo sapiens

<400> 190

Ser Leu Val Ile Leu Val Cys Tyr Ser Leu Met Val Arg Ser Leu Ile
1 5 10 15

Lys Pro Glu Glu Pro His Glu Val Gln Ala Thr Gln Pro Glu Pro Gly
20 25 30

Pro Ser Gly Thr Ile Leu Leu Val Cys Gly Leu Phe Thr Leu Cys Phe
35 40 45

Val Pro Phe His Ile Thr Arg Ser Phe Tyr Leu Thr Ile Cys Phe Leu
50 55 60

Leu Ser Gln Asp Cys Gln Leu Leu Met Ala Ala Ser Val Ala Tyr Lys
65 70 75 80

Ile Trp Arg Pro Leu Val Ser Val Ser Ser Cys Leu Asn Pro Val Leu
85 90 95

Tyr Phe Leu Ser Arg Gly Ala Lys Ile Glu Ser Gly Ser Ser Arg Asn
100 105 110

Gly Arg Thr Ser Trp Val Ser Ile Gln Leu Gly Gly Arg Asp Ala Gln
 115 120 125

Gly Thr Asp Leu Gly Asn Ala Lys Val Lys Leu Gly Lys Asn Glu Leu
 130 135 140

Gln His His Gln Gln Leu Val Cys Thr Gln Met Ser Ala Gly Gly Arg
 145 150 155 160

Gly Ala Gln Asp Leu Leu Lys Val Ser Cys Cys Lys Gly His Phe Tyr
 165 170 175

Ile Asp Val Lys Val Asn Lys Ser Met Glu Arg Ala Thr
 180 185

<210> 191

<211> 208

<212> PRT

<213> Homo sapiens

<400> 191

Ser His Ile Ser Pro Gly Thr Gly Cys Leu Ser Leu Pro Ala Ile Val
 1 5 10 15

Trp Ala Leu Ala Gly Ser Ser Pro Trp Glu Met Trp Ala Arg His Ser
 20 25 30

Asp Arg Ser Gln Ser Ala Gly Ala Gly Ala Phe Gly Leu Ser Ser Pro
 35 40 45

Met Glu Val Ser Glu Pro His Ser His Ser Tyr Arg Arg His Gln Asn
 50 55 60

Ser Leu Tyr Val Glu Pro His Lys Val Glu Thr Val Asn Ser Cys Arg
 65 70 75 80

Asn Leu Leu Trp Asn Thr Thr Val Phe Glu Ser Gly Ser Asp Leu Thr
 85 90 95

Ser Ser Val Thr Leu Gly Lys Leu Leu Leu Pro Trp Thr Pro Thr Thr
 100 105 110

His Leu Asp Val Gly Asn Asn Asp Thr Glu Phe Ile Gly Leu Arg Leu
 115 120 125

His Leu Met Gly Thr Leu Glu Gln Cys Gln Thr Gln Thr Thr Asn Ala
 130 135 140

Gln Lys Leu Val Phe Ile Ile Ala Phe His Phe Asn Cys Gly Leu Leu
 145 150 155 160

Gly Leu Asn Cys Val Pro Ser Lys Arg Tyr Ile Gly Val Leu Thr Leu
 165 170 175

Ser Thr Ser Glu Cys Asp Cys Thr Trp Arg Leu Gly Leu Tyr Arg Asp
 180 185 190

Asn Arg Val Lys Met Glu Leu Gln Gly Trp Ser Leu Ile Gln Cys Asp
 195 200 205

<210> 192

<211> 211

<212> PRT

<213> Homo sapiens

<400> 192

```

Ile Leu Ser Ser Ser Leu Cys Leu Arg Pro Pro Ser Pro Glu Pro Ser
1          5          10          15

Glu Leu Ser Ala Ser Ser Leu Phe Ala Pro Pro Cys Cys Arg His Arg
          20          25          30

Arg Phe Gly Ser Val Pro Ala Glu Val Gly Lys Asp Thr Trp Asn Ser
          35          40          45

Gly Arg Pro Leu Cys Ser Pro Leu Ala Arg Ser Lys Ala Val Lys Asp
          50          55          60

Thr Ala Ser Pro Gly Ser Cys Ser Ser Leu Asn Pro Thr Val Asp Leu
65          70          75          80

Val Gly Arg Leu Arg Ala Gln Ile Cys Arg Cys Ser Ile Val Ser Ser
          85          90          95

Val Ser Cys Pro Leu Leu Pro Pro Gly Val Asp Ser Cys Thr Val His
          100          105          110

Pro Thr Pro Ala Phe Pro Ser Phe Leu Ile Ser Pro Val Ile Phe Pro
          115          120          125

Val Ala Leu Leu Cys Trp Cys Pro Val Arg Ser Cys Gly His Lys Arg
          130          135          140

Leu His Gly Pro His Pro Gln Leu Gly Glu Ser Ser Pro Ser Trp Val
145          150          155          160

Leu Trp Thr Val Lys Lys Asp Gly His Val Gly Ser Val Glu His Glu
          165          170          175

Val Val Gln Asp Leu Gly Gly His Arg Ser Cys Leu Pro Ala Ser Arg
          180          185          190

Ala Leu Pro Pro Phe Gly Ser Leu Leu His Leu Gly Lys Arg Phe Val
          195          200          205

Pro Thr Pro
          210

```

<210> 193

<211> 208

<212> PRT

<213> Homo sapiens

<400> 193

```

Asn Met Ser Tyr Ser Ser Arg Val Asn Ser Leu Leu Leu Phe Ser Phe
1          5          10          15

Asn Phe Ser Tyr Ile Ile Phe His Ile Asn Phe Arg Ile Ser Leu Val
          20          25          30

Trp Gly Val Ile Gln Val Asn Leu Ile Lys Phe Gly Glu Gly Phe Thr
          35          40          45

Ile His Leu Ile Asn Phe Gly Arg Val Val Met Leu Met Phe Ser His
          50          55          60

```


Tyr Ile Leu Lys Cys Asp Ile Ser Phe His Leu Phe Val Leu Asp Gln
65 70 75 80

Ala Leu Val Ala Ser Ser Glu Asn Leu Leu Asn Ser Arg Asn Asn Phe
85 90 95

Phe His Leu Leu Thr His Phe Leu Thr Ile Cys Phe Leu Pro Leu Val
100 105 110

Leu Cys Leu Val Asn Tyr Phe Leu Leu Ile Ser Pro Leu Gln Ile Leu
115 120 125

Tyr Ala Ile Arg Lys Gly Val Thr Asp Leu Val Ile Glu Thr Gln Tyr
130 135 140

Thr Phe Val Gly Met Met Lys Ala Leu Gly Ile Phe Ser Tyr Tyr Val
145 150 155 160

His Leu Ile Ile Leu Lys Leu Ser Ser Tyr Val Glu Pro Ile His Lys
165 170 175

Ser Arg Ser Phe Asp Phe Lys Ser Cys Ile Phe Pro Tyr Phe Gln Tyr
180 185 190

Leu Ile Gly Glu Val Thr Cys Asn Ala Ile Val Leu Gln Phe Tyr Ile
195 200 205

<210> 194

<211> 213

<212> PRT

<213> Homo sapiens

<400> 194

Met Thr Gly Asn Ala Val Val Leu Trp Leu Leu Gly Phe Arg Met Arg
1 5 10 15

Arg Asn Ala Phe Ser Ile Tyr Ile Phe Asn Leu Ser Met Ala Asp Phe
20 25 30

Leu Phe Leu Arg Ser His Ile Ile Arg Phe Pro Leu Ser Leu Ile Asn
35 40 45

Ile Leu His Pro Ile Phe Lys Ile Leu Ser Pro Val Met Met Phe Ser
50 55 60

Tyr Leu Ala Ser Leu Ser Phe Leu Ser Ala Met Ser Thr Glu Arg Cys
65 70 75 80

Leu Tyr Val Leu Trp Pro Ile Trp Arg Cys Arg Pro Arg Pro Tyr Thr
85 90 95

Cys Gln Arg Ser Cys Val Ser Cys Ser Gly Pro Cys Leu Cys Cys Gly
100 105 110

Ala Ser Trp Ser Gly Val Ser Val Thr Ser Cys Leu Val Val Leu Ile
115 120 125

Leu Phe Gly Val Lys His Gln Ile Ser Ser Gly Gly Phe Phe Tyr Val
130 135 140

Trp Leu Ser Val Val Pro Ala Trp Ser Cys Trp Ser Gly Ser Phe Val
145 150 155 160

Gly Pro Gly Arg Cys His Pro Gly Cys Thr Pro Ser Cys Ser Arg Trp

165

170

175

Ser Ser Ser Phe Cys Gly Leu Pro Phe Gly Ile Arg Phe Phe Leu Phe
 180 185 190

Ser Trp Asn His Val Asp Leu Glu Val Leu Tyr Cys His Val His Leu
 195 200 205

Val Ser Ile Phe Leu
 210

<210> 195

<211> 190

<212> PRT

<213> Homo sapiens

<400> 195

His Thr His Thr His Thr His Thr His Thr His Thr His Thr Arg Thr
 1 5 10 15

His Pro Ile Asn Gly Phe Pro Gly Gly Arg Ala Ser Val Pro Leu Thr
 20 25 30

Ala Gly Pro Pro Gly Pro Ala Lys Gly Ala Lys Ser His Ser Asp Ile
 35 40 45

Asn Ser Trp Phe Gln Ser Asn Lys Gln Ser Asn Val Arg Lys Val Ile
 50 55 60

Arg Leu Lys Gly Phe Glu Gly Lys Ser His Gln Lys Val Lys Leu Asp
 65 70 75 80

Pro Thr Ser Thr Ser Trp Met Ser Tyr Leu Ile Ser Leu Ala Ser Val
 85 90 95

Phe Ser Pro Ile Lys Lys Pro Glu Asp Leu Pro His Gln Ala Val Leu
 100 105 110

Lys Leu Asn Glu Leu Ile Pro Val Gln Ala Glu Asn Ser Ile Tyr Ser
 115 120 125

Ile Ser Gln Leu Leu Leu Leu Leu Leu Leu Leu Cys Thr Trp Leu Ser
 130 135 140

Leu Phe Ser Phe Ile Asn Tyr Tyr Ser Leu His Leu Phe Ala Ala Thr
 145 150 155 160

Trp Ser Ser Trp Asn Pro Phe Thr Ala Tyr Ser Arg Glu Thr Gly Glu
 165 170 175

Gly Arg Cys His Leu His Ser His Trp Asp Ala Pro Ala Pro
 180 185 190

<210> 196

<211> 138

<212> PRT

<213> Homo sapiens

<400> 196

Glu Asn Leu Phe Phe Lys Gly Lys Phe Val Ser Asn Thr Leu Pro His
 1 5 10 15

Ser Phe Ile Arg Gln Cys Phe Leu Cys His Phe Ser Ala Arg Ile Leu

20

25

30

Leu Leu Gly Ile Glu Phe Thr Val His Ser Ser Val Leu Ser Val Leu
 35 40 45

Gln Lys Tyr Tyr Leu Phe Pro Ser Asn Leu His Gly Phe Arg Trp Lys
 50 55 60

Ile Cys Cys Gly Leu His Tyr Cys Phe Ser Val Arg Asn Val Pro Phe
 65 70 75 80

Phe Leu Cys Leu Leu Ser Arg Phe Leu Ile Phe Phe Phe His Phe Gln
 85 90 95

Lys Leu Asn Val Phe Gly Cys Ile Leu Phe Arg Val Cys Ser Cys Phe
 100 105 110

Leu Glu Tyr Leu Gly Leu Cys Ser Ser Ile Leu Ile Trp Glu Gly Ser
 115 120 125

His Tyr Phe Leu Ile Val Phe Ser His Ile
 130 135

<210> 197

<211> 175

<212> PRT

<213> Homo sapiens

<400> 197

Ser Asp Ser Pro Ile Tyr Asn Leu Cys His Thr Asn Arg Leu Asn Pro
 1 5 10 15

His Cys Glu Phe His Thr Cys Val Asp Val Ser Thr Ser Arg Asp Gly
 20 25 30

Cys Ile Phe Phe Ile Phe Leu His Thr Phe Leu Glu Tyr Phe Ile Ser
 35 40 45

Met Val Leu Gln Ile Leu Leu Pro Thr Tyr Cys Gly Phe Lys Ala Met
 50 55 60

Glu Lys Thr Lys Ser His Arg Ser Lys Tyr Cys Arg Lys Gln Asn Ser
 65 70 75 80

Trp Val Asp Leu Ile Phe Leu Tyr Lys Asn Tyr Gly Tyr Gly Tyr Met
 85 90 95

Tyr Leu Cys Met Ser Val Ala Lys Ile Asn Lys Met Asn Thr Phe Asn
 100 105 110

Leu Arg Val Pro Ile Ile Gln Phe Thr Ser Phe Cys Pro Thr Thr Leu
 115 120 125

Glu Ala Lys Thr Leu Val Glu Thr Leu Met Cys Phe Thr Ser Asn Ser
 130 135 140

Ser Leu Ala Leu Asn Ile Pro Leu Phe Val His Pro Leu Ser Asp Ala
 145 150 155 160

Ile Leu Leu Val Lys Gln Gln Thr Ser Thr His Arg Lys Leu Glu
 165 170 175

<210> 198

<211> 177

<212> PRT

<213> Homo sapiens

<400> 198

Ser Arg Lys Gly Arg His Trp Arg Gly Cys Leu Leu Thr Leu Leu Met
1 5 10 15

Leu Val Ala Val Val Val Cys Phe Ser Pro Tyr His Leu Asn Ile Lys
20 25 30

Gln Phe Met Ala Arg Gly Met Leu His Leu Pro Ser Cys Ala Glu Arg
35 40 45

Arg Ala Phe Leu Leu Ser Leu Gln Ala Thr Val Ala Leu Met Asn Met
50 55 60

Asn Cys Gly Ile Thr Pro Ser Phe Thr Ser Leu His Pro Pro Ile Thr
65 70 75 80

Gly Asn Gly Ser Trp Ala Phe Ser Ser Lys Gly Leu Pro Pro Pro Pro
85 90 95

Pro Pro Pro Pro Pro Gln Glu Lys Leu Leu Gln Lys His Gln Val Ser
100 105 110

Pro Arg Pro Glu Val Leu Cys Ser Arg Ser Thr Trp Ser Asn Val Ser
115 120 125

Phe Ala Leu Leu Tyr Leu Gly Arg Gly Pro Ala Leu Gly Tyr Ser Tyr
130 135 140

Asn Leu Gly Lys Arg Phe Phe Lys Glu Lys Asn Thr Glu Glu Ile Gln
145 150 155 160

Asn Ala Gly Arg Gly Gly Ser Arg Leu Ser Pro His Phe Gly Arg Pro
165 170 175

Arg

<210> 199

<211> 202

<212> PRT

<213> Homo sapiens

<400> 199

Val Tyr Glu Cys Tyr Ile Phe Gly His Cys Trp Asp Val Ala Ser His
1 5 10 15

His Leu Thr Ser Leu Asn Leu Ser Gly Leu Thr Cys Glu Met Gly Ala
20 25 30

Leu Thr Phe Thr Cys Leu Gln Ala Cys Ser Gln Ile Arg Cys His Leu
35 40 45

Lys Asp Phe Ser Ser Pro Gly Asp Phe Lys Arg Leu Leu Arg Gly His
50 55 60

Phe Phe Ser Gly Cys Gly Arg Ser Met Ile Arg Val Ile Arg Met Gly
65 70 75 80

Leu Leu Glu Glu Arg Gly Gly Gln Arg Leu Leu Phe His Phe Met Ala
85 90 95

Pro Ser Gly Gln Arg Thr Asp Ser Ala Thr Ala Ala Thr Arg Ala Leu
100 105 110

Pro Gly Leu Trp Ser Gln Leu Ser Gln Gln Glu Phe Gln Lys Ala Lys
115 120 125

Gly Ser Glu Leu His Pro Ser Phe Leu Ala Asp Cys His Pro Ala Ser
130 135 140

Ser His Ser Pro Gln Gly Tyr Val Met Leu Ala Leu Lys Ala Ser Leu
145 150 155 160

Gly Arg Gly Cys Ile Cys His Pro Leu Pro Cys Lys Ile Phe Glu Val
165 170 175

Gln Arg Ala Leu Gln Ala Glu Pro His Pro Leu Leu His Ser Pro Ser
180 185 190

Val Gly Met His Ser Pro Ser Val Gly Met
195 200

<210> 200

<211> 175

<212> PRT

<213> Homo sapiens

<400> 200

Leu Pro Pro Pro Pro Ile Leu Val Pro Thr Val Val Thr Glu Glu Ile
1 5 10 15

Phe Ser Ser Ser Thr Ala Thr Leu Lys Gly Pro Ser Val Pro Phe Gly
20 25 30

Gly Leu Gly Ile Asp Leu Pro His Arg Ser Ser Leu Ala Pro Met His
35 40 45

Thr Phe Arg Asp Leu Arg Thr Gly Pro Leu Cys Leu Pro Leu Ser Leu
50 55 60

Leu Val Arg Lys Asp Trp Pro Ala Cys Leu His Pro Gln Gln Ser Ile
65 70 75 80

Ala Thr Ala Pro Ser Cys Ala Thr Glu Glu Leu Thr Asp Thr Thr His
85 90 95

Thr Val Tyr Ser Arg Arg Asn Pro Met Gly Pro Ile Ile Leu Cys Pro
100 105 110

Pro Trp Ile Lys Thr Lys Val Leu Tyr Ala Thr Asn Thr Thr Ala Ile
115 120 125

Ser Thr Gly Lys Ser Leu Ser Leu Gln Lys Pro Ile Gln Lys Pro Arg
130 135 140

Arg Ser Asn Cys His Thr Lys Tyr Thr Asp Thr Asn Leu Arg Thr Glu
145 150 155 160

Thr Glu Asn Lys Glu Thr Trp His Phe Leu Lys Glu His Asn Asn
165 170 175

<210> 201

<211> 178

<212> PRT

<213> Homo sapiens

<400> 201

Leu Gly Phe Leu Leu Thr Asp Val Gln Ser Val Phe Gly Tyr Leu Gln
 1 5 10 15
 His Glu Thr His Tyr Cys Ser Ala Thr Ile Gly Arg His Trp Pro Ala
 20 25 30
 His Pro Leu Met Arg Cys Trp Asn Pro Phe Phe Ile Leu Lys Tyr Leu
 35 40 45
 Ile Asp Lys Asn Cys Val Cys Ser Arg Cys Asp Val Met Leu Arg Ser
 50 55 60
 Arg Tyr Ile Gln Val Tyr Leu Pro Gln Ser Asn Leu Thr Asn Leu Ser
 65 70 75 80
 Pro Pro Met Ile Thr Ile Met Leu Arg Gly Gly Ser Glu Asp Thr Lys
 85 90 95
 Asp Leu Leu Ser Tyr Gln Ile Ser Ser Gln Gln Tyr Ser Ile Ile Asn
 100 105 110
 Thr Val Thr Met Leu Cys Ile Arg Ser Pro Glu His Val Thr Glu Gly
 115 120 125
 Leu Tyr Leu Leu Thr Asn Ile Ser Pro Ala Leu His Glu Trp Met Val
 130 135 140
 Ser Ile Phe Gln Thr His Ser Glu Asp Phe Ala Trp Leu Ala Thr Ser
 145 150 155 160
 Ile Ser Pro Glu Lys Val Gln Lys Ser Arg Pro Ser His Arg Asn Ser
 165 170 175
 Asp Ala

<210> 202

<211> 196

<212> PRT

<213> Homo sapiens

<400> 202

Tyr Gly Ala Leu Tyr Lys Tyr Lys Gln Gln Ser Leu Thr Phe Leu Ser
 1 5 10 15
 Leu Gln Leu Leu Thr Leu Ala Gly Ser Arg Ile Lys Met Pro Asn Ser
 20 25 30
 Thr Gln Lys Pro Trp Pro Val Ser Leu Pro Lys Met Glu Phe Arg Leu
 35 40 45
 Thr Ala Gly Asn Arg Asn Cys Ser Phe Lys Ala Ile Ala Trp Ala Met
 50 55 60
 Val Pro Ile Phe Val Asn Ile Gly Phe Cys Leu Asn Ser Val Ser Arg
 65 70 75 80
 Val Asp Tyr Ile Ile Cys Lys Val Cys Lys Met Lys Val Trp Gly Ser
 85 90 95

00100US1.ST25

Ser Ser Lys Tyr Lys Gln Lys Val Leu Leu Ser Val Ser Lys Tyr Lys
 100 105 110

Met Phe Pro Leu Ser Val Ile Tyr Phe Ser Thr Cys Tyr Val Phe Gln
 115 120 125

Phe Val Cys Phe Val Phe Pro Leu Leu Phe Tyr Val Leu Leu Cys Lys
 130 135 140

Lys Ile Lys Asn Leu Asn Tyr His Asn Lys Phe Ser His Ser Phe Leu
 145 150 155 160

Cys Cys Ala Val Ser Ile Asn Ala Asn Ile Lys Ala Phe Asn Leu Tyr
 165 170 175

Ile Glu Ser Gln Lys Leu His Asn Thr Tyr Phe Ile Val Cys Thr Cys
 180 185 190

Met Tyr Ile Leu
 195

<210> 203
 <211> 212
 <212> PRT
 <213> Homo sapiens

<400> 203

Ser Gly Val Ile Asn Leu Leu Tyr Ile Cys Val Tyr Val Cys Ile Phe
 1 5 10 15

Leu Pro Asn Arg Cys Asn Thr Lys Tyr Ser His Gly Val Ile Thr Phe
 20 25 30

Ser Gln Leu Thr Leu His Pro Tyr Ile Ile Glu Glu Arg Ser Thr Ser
 35 40 45

Ile Leu Phe Leu Leu Val Ile Ala Leu Met Ser Glu Tyr Lys Leu Asp
 50 55 60

Ser Ser Val Ala Asn Asn Thr Arg Gln Ser Lys Asp Phe Ser Cys Cys
 65 70 75 80

Arg His Ile Phe Leu Ile Tyr Trp Lys His Lys Cys Val Pro Pro Asn
 85 90 95

Phe Ile Val Asp Arg Asn Met Lys Asn Phe Ile Lys Leu Lys Thr Gly
 100 105 110

Ser Leu Pro Asp Leu Pro Val Ile Leu Pro Thr Leu Gln Ile His Pro
 115 120 125

Ile Val Pro Ala Ser Phe Thr Met Lys Lys Tyr Glu Thr Cys Leu Thr
 130 135 140

Trp Ser Leu Cys Leu Arg Glu Thr Cys Val Cys Leu Trp Asn Thr Leu
 145 150 155 160

Thr Lys Ile Pro Ala Leu Val Asp Lys Thr Gly Phe Gln Ser Ser Leu
 165 170 175

Asn Ser His Phe Val Leu Asn Lys Val Val Ser Lys Thr Arg Cys Ser
 180 185 190

Lys Tyr Tyr Cys Ser Asp Ala Ile Ser Lys Thr Val Leu Ile Pro Cys

195

200

205

Gly Arg Glu Asn
210

<210> 204
<211> 172
<212> PRT
<213> Homo sapiens

<400> 204

Asn Lys Ile Val Phe Ile Phe Ser His Asp Cys Leu Trp Arg Lys Ile
1 5 10 15

Ser Lys Asn Leu Pro Lys Thr Asn Ala Ile Leu Ser Arg Val Lys Glu
20 25 30

Thr Arg Ser Ser Leu Phe Cys Thr Leu Tyr Phe Cys Ile Ser Val Leu
35 40 45

Phe Leu Tyr Gly Ser Asn Asp Gln Leu Glu Ile Lys Ile Leu Lys Gln
50 55 60

His Gln Lys His Lys Met Leu Ser Tyr Lys Ser Asn Lys Thr Tyr Thr
65 70 75 80

Asp Ser Val Pro Lys Thr Val Asn Val Tyr Leu Lys Asn Gln Arg Arg
85 90 95

Ala Glu Gln Arg Ala Thr Ser Cys Leu Leu Leu Glu Asn Ser Ile Glu
100 105 110

Leu Arg Tyr Lys Phe Pro Gln Ser Asp Leu Asp Ala Thr Gln Phe His
115 120 125

Ser Asn Pro Ser Arg His Phe Leu Leu Lys Ser Thr Ser Cys Phe Ile
130 135 140

His Thr Lys Ile His Lys Asn Lys Lys Ala Lys Ile Leu Leu Lys Glu
145 150 155 160

Asn Lys Phe Arg Arg Leu Leu Leu Ser Asp Phe Arg
165 170

<210> 205
<211> 313
<212> PRT
<213> Homo sapiens

<400> 205

Val Pro Lys Ile Phe Ser Phe Ser Ser Ser Phe Gln Asn Tyr Phe Leu
1 5 10 15

Ile Leu Val Lys His Thr Ser Ser Asn Ile Thr Tyr Tyr Leu Val Phe
20 25 30

Thr Tyr Ile Thr His Ser Leu Asn Lys Phe Val Glu Met Ile Ile Leu
35 40 45

Lys Ile Leu Val Phe Lys Phe Met Ser Ser Gln Lys Leu Leu Pro Arg
50 55 60

Ile Ser Ile Leu Asn Ile Trp Ile Asn Ile Leu Phe Tyr Thr Pro Tyr


```

65              70              75              80
Asn Ile Leu Leu Ala Ile Ile Ile Phe Phe Arg Ile Cys Ser Thr Ser
      85              90              95
Asn Phe Phe Asp Phe Leu Ile Leu Lys Arg Ile Ile Tyr Ala Asn Gln
      100             105             110
Gln Cys Lys Asp Phe Ser Trp Phe Thr Arg Val Lys Leu Phe Ser Arg
      115             120             125
Met Val Gly Ser Phe Ala Tyr Ile Lys Leu Met Tyr Arg Ser Ala Ser
      130             135             140
Ser His Ile Lys Val Gln Ser Leu Leu Lys Lys His Phe Ile Ser Asn
      145             150             155             160
Gln Phe Val Phe Leu Tyr Thr Leu Lys Pro Phe Asn Cys Phe Tyr Phe
      165             170             175
Ser Ile Leu Thr Ser Ile Ser Cys Tyr Ser Gln Trp Pro Ala Ser Ser
      180             185             190
Leu Ala Ile Arg Gln Leu Phe Val Tyr Leu Ala Lys Tyr Ile His Ala
      195             200             205
Leu Lys Ile Pro Phe Pro Asn Ile Tyr Tyr Asp Phe Phe Lys Gly Phe
      210             215             220
Ser Phe Val Thr Met Thr Leu Lys Ala Lys Val Ser Arg Cys Cys Ile
      225             230             235             240
Thr Val Gly Ser Thr Ile Met Tyr Gln Glu Gly Arg Glu Asn Gln Gly
      245             250             255
Thr Phe Leu Trp Glu Tyr Pro Ile Ile Cys Gln Ile Tyr Ser Asn Ser
      260             265             270
Leu Arg Thr Ile Thr Phe Val Phe Thr Val Phe Pro Met Gln Phe Leu
      275             280             285
Arg Phe Ile Phe Lys Asn Phe Leu Gly Glu Met Asp Tyr Ser Leu Leu
      290             295             300
Ser Ala Val Ile His Asn Phe Tyr Phe
      305             310

```

<210> 206

<211> 318

<212> PRT

<213> Homo sapiens

<400> 206

```

Pro Phe Tyr Tyr Ser Met Leu Val Pro Thr Ser Gly Leu Ser Thr Cys
1              5              10              15
Cys Ser Phe Cys Leu Glu Ser Ser Ser Pro Asp Leu Leu Arg Phe Pro
      20              25              30
Leu Ser Ile Arg Val Ser Ala Val Ile His Pro Gln Arg Arg Ser Pro
      35              40              45
Asp Pro Val Lys Pro Pro Ile Pro Gln Ser Pro Tyr Val Ser Thr Ser
      50              55              60

```

00100US1.ST25

Leu Tyr Leu Ile Ser Gln His Leu Leu Ile Ser Leu Thr Leu His Tyr
65 70 75 80

Met Cys Cys Tyr Met Phe Val Ile Leu Ser Ser Gly Pro Cys Asn Val
85 90 95

Arg Met Ala Gln Tyr Lys Trp Gln Glu Gly Cys Arg Gly Val Asp Lys
100 105 110

Ala Glu Ser Gly Trp Gly Ser Trp Arg Asp Gly Gln Gly Pro Glu Leu
115 120 125

Arg Arg Trp Tyr Leu Gln Cys Ala Leu Asn Cys Pro Gly Met Ile Ile
130 135 140

Ser Ile Ala Ser Phe His Ser Gln Arg Cys Pro Gly Tyr Tyr Ser Cys
145 150 155 160

Ser Val Tyr Arg Ala Trp Ala Val Gly Ile Leu Phe Gln Met Gly Cys
165 170 175

Glu Ala Cys Gly Trp Phe Ala Gly Ser Asp Met Ile Leu Ala Phe Lys
180 185 190

Asp His Asp Gln Val Leu Glu Thr Leu Phe Trp Leu Leu Pro Thr Pro
195 200 205

Pro His Thr His Pro Thr Leu Leu His Cys Pro Phe Ser Leu Leu Trp
210 215 220

Gln Leu Phe Leu Phe Tyr Asn Leu Ile Leu Glu Phe Leu Gln Thr Ser
225 230 235 240

Gly Ser Gln Leu Gly Ala Ile Ser Pro Pro Arg Asp Ile Trp Tyr Phe
245 250 255

Ile Trp Arg Tyr Phe Trp Ser Gln Leu Glu Arg Val Leu Ala Ser Ser
260 265 270

Gly Arg Pro Gly Arg Leu Leu Thr Ile Leu Gln Ser Thr Glu Gln Pro
275 280 285

Tyr Thr Ile Lys Asn Asp Leu Thr Gln Asn Ala Ser Ser Pro Glu Val
290 295 300

Lys Lys Pro Cys Thr Arg Leu Ala Pro Ser Asn Arg Asn Ile
305 310 315

<210> 207

<211> 318

<212> PRT

<213> Homo sapiens

<400> 207

Ile Ser Pro Phe Tyr Tyr Ser Met Leu Val Pro Thr Ser Gly Leu Ser
1 5 10 15

Thr Cys Cys Ser Phe Cys Leu Glu Ser Ser Ser Pro Asp Leu Leu Arg
20 25 30

Phe Pro Leu Ser Ile Arg Val Ser Ala Val Ile His Pro Gln Arg Arg
35 40 45

00100US1.ST25

Ser Pro Asp Pro Val Lys Pro Pro Ile Pro Gln Ser Pro Tyr Val Ser
50 55 60

Thr Ser Leu Tyr Leu Ile Ser Gln His Leu Leu Ile Ser Leu Thr Leu
65 70 75 80

His Tyr Met Cys Cys Tyr Met Phe Val Ile Leu Ser Ser Gly Pro Cys
85 90 95

Asn Val Arg Met Ala Gln Tyr Lys Trp Gln Glu Gly Cys Arg Gly Val
100 105 110

Asp Lys Ala Glu Ser Gly Trp Gly Ser Trp Arg Asp Gly Gln Gly Pro
115 120 125

Glu Leu Arg Arg Trp Tyr Leu Gln Cys Ala Leu Asn Cys Pro Gly Met
130 135 140

Ile Ile Ser Ile Ala Ser Phe His Ser Gln Arg Cys Pro Gly Tyr Tyr
145 150 155 160

Ser Cys Ser Val Tyr Arg Ala Trp Ala Val Gly Ile Leu Phe Gln Met
165 170 175

Gly Cys Glu Ala Cys Gly Trp Phe Ala Gly Ser Asp Met Ile Leu Ala
180 185 190

Phe Lys Asp His Asp Gln Val Leu Glu Thr Leu Phe Trp Leu Leu Pro
195 200 205

Thr Pro Pro His Thr His Pro Thr Leu Leu His Cys Pro Phe Ser Leu
210 215 220

Leu Trp Gln Leu Phe Leu Phe Tyr Asn Leu Ile Leu Glu Phe Leu Gln
225 230 235 240

Thr Ser Gly Ser Gln Leu Gly Ala Ile Ser Pro Pro Arg Asp Ile Trp
245 250 255

Tyr Phe Ile Trp Arg Tyr Phe Trp Ser Gln Leu Glu Arg Val Leu Ala
260 265 270

Ser Ser Gly Arg Pro Gly Arg Leu Leu Thr Ile Leu Gln Ser Thr Glu
275 280 285

Gln Pro Tyr Thr Ile Lys Asn Asp Leu Thr Gln Asn Ala Ser Ser Pro
290 295 300

Glu Val Lys Lys Pro Cys Thr Arg Leu Ala Pro Ser Asn Arg
305 310 315

<210> 208
<211> 320
<212> PRT
<213> Homo sapiens

<400> 208

Lys Leu Thr Leu Ala Ala Tyr Thr Leu Ile Gln Cys His Leu Pro Cys
1 5 10 15

Val Ile His Asn Ile Leu Tyr Glu Ser Tyr Phe Leu Cys Val Cys Val
20 25 30

Pro Phe Phe Glu Glu Tyr Asp Leu Ser Gln Phe Phe Cys Phe Ser Leu

35

40

45

Ser Pro Phe Asn Ile Ser Arg Ala Phe Val Val Val Thr Gly Glu Thr
 50 55 60
 Thr Tyr Thr Ser Phe Leu Leu Leu Phe Cys Tyr Leu Gln Phe Cys Met
 65 70 75 80
 Thr Leu Lys Gln Lys Asn Asn Tyr Leu Thr Ile Ser Phe Val Leu Tyr
 85 90 95
 Ser Gly Phe His Ile Gln Ser Pro Phe Ile Met Leu Leu Pro Leu Phe
 100 105 110
 Ser Ser Val Phe Glu Asp Gly Lys Ile His Gln His Pro Lys Tyr Gln
 115 120 125
 Pro Glu Arg Lys Lys Glu Ser Gly Trp Arg Gln Asp Ser Phe Gln Ser
 130 135 140
 Ile Ser Ser Thr Asp His Gly Ala Ala Ala Lys Arg His Ser Lys Arg
 145 150 155 160
 Val Glu Arg Gly Lys Thr Ser Ser Leu Arg Cys Leu Pro Phe Lys Phe
 165 170 175
 Thr Ile Ile Ile Arg Met Leu Leu Glu Glu Glu Gln Gly Gln Gly His
 180 185 190
 Phe Cys Asn Met Thr Gln Lys Asn Ile Asp Leu Lys Phe Asp Thr Tyr
 195 200 205
 Glu Leu Ser Lys Cys Arg Glu Lys Leu Pro Pro Cys Cys Thr Cys Met
 210 215 220
 Cys Ala Ile His Phe Ile Leu Ile Lys Val Cys Lys His Glu Met Gln
 225 230 235 240
 Gly Thr Asp His Leu Phe Met Arg Met Gln His Ser Ser Glu Lys Val
 245 250 255
 Tyr Leu Pro Lys Thr Glu Tyr Met Phe Ile Leu Lys Phe Phe Phe Leu
 260 265 270
 Phe Leu Phe Leu Ile Val Ile Lys Tyr Lys His Lys Phe Thr Ile Leu
 275 280 285
 Ile Ile Phe Lys Tyr Thr Val Gln Tyr Val His Ser His Tyr Cys Ala
 290 295 300
 Thr Asn Phe Gln Asn Ser Phe Tyr Leu Ala Lys Met Lys Leu Tyr Thr
 305 310 315 320

<210> 209

<211> 315

<212> PRT

<213> Homo sapiens

<400> 209

Gln Pro Phe Ser Met His Ser Leu Glu Glu Lys Phe Phe Phe Phe Leu
 1 5 10 15
 Asn His Tyr Ser Ala Thr Ser Ile Ser Leu Glu Phe Leu Ser Ser Glu
 20 25 30

00100US1.ST25

Thr Leu Val Gln Val Ser Trp Gly Ile Arg Ile Val Cys Val Trp Ile
 35 40 45
 Thr Lys Tyr Tyr Arg Leu Arg Gly Glu Glu Thr Leu Trp Ser Phe Arg
 50 55 60
 Pro Thr Leu Ile Cys Leu Asp Leu Phe Cys Phe Lys Glu Ser His Leu
 65 70 75 80
 Gln Arg Thr Ala Ser Asp Ser Pro Cys Ser Val Phe Ser Gln Glu Cys
 85 90 95
 Ser Leu His Gln Pro Gln Glu Val Leu Gln Lys Glu Val Phe His Val
 100 105 110
 Gln Ile Thr Leu Arg Ser Asn Ser His His Ile Asp Phe Glu Tyr Ser
 115 120 125
 Cys Arg Lys Thr Cys Leu Tyr Gln Leu Gly Val Ser Pro Asn Leu Phe
 130 135 140
 Gly His Gly Asn Ser Phe Ser Lys Lys Thr Cys Phe Ser Ile Ser Phe
 145 150 155 160
 His Arg Lys Leu Thr Val Val Cys Val Phe Phe Gln Ile Ile His Ile
 165 170 175
 Tyr Ser Lys Leu Lys Leu His Trp Leu Phe Gly Phe Ile Asn Pro Leu
 180 185 190
 Thr Ser Val Leu Phe Phe Ser Thr Thr Cys Cys Leu Ala Thr Ser Ala
 195 200 205
 Cys Phe Val Trp Leu Asp Phe Leu Val Leu Ser Ile Gly Leu Arg Phe
 210 215 220
 Tyr Ile Leu Ser Cys Trp Asn His Pro Thr Ser Pro Ala Trp Leu Phe
 225 230 235 240
 Gly Ser Arg Leu Ser His Leu Val His Ser Ser Ala Val Asp Leu Tyr
 245 250 255
 Tyr Ser Leu Met Ser Ala Tyr Ser Leu His Leu Tyr Ser Phe Cys Leu
 260 265 270
 Glu Met Met Ser Arg Thr Gly Gln Gly Trp Tyr His Ser Ile Asn His
 275 280 285
 His Pro Leu Ile Leu Thr Val Asn Leu Pro Asn Lys Ile Phe Gln Lys
 290 295 300
 Arg Val Ser Asn Asn Pro Cys Leu Pro Leu Trp
 305 310 315
 <210> 210
 <211> 327
 <212> PRT
 <213> Homo sapiens
 <400> 210
 Arg Val Pro Ser Leu Pro Gly Pro Pro Ala Thr Val Cys Pro Val Pro
 1 5 10 15

00100US1.ST25

Ala Ser Glu Phe Ser Gln His Arg Lys Arg Gly Leu Arg Thr Ile Gln
 20 25 30
 Pro Val His Ser Arg Glu Ser Leu Ser Val Ser Gln Arg Leu Met Gly
 35 40 45
 Cys Leu Trp Cys Arg Val Thr Pro Ala Ser Pro Cys Gly Gly Cys Ala
 50 55 60
 Gly Gly Ala Arg Pro Pro Pro Cys Ala Leu Ser Leu Ala Gln Gly Gln
 65 70 75 80
 His Thr Ala His Pro Leu Phe Phe Leu Pro Phe Pro Leu Ala Gln Pro
 85 90 95
 Leu Val Val Gly Val Thr Arg Gly Ala Glu Arg Ser Trp Arg Ser Arg
 100 105 110
 Ala Cys Pro Gly Pro Val Arg Glu Gly Gly Arg Gly Gln Gln His Pro
 115 120 125
 Trp Arg Arg Glu Asp Tyr Ile Ile Phe Ile Tyr His Met Pro Lys Ile
 130 135 140
 Ala Leu Leu Arg Ala Phe Asp Ile His Pro Lys Ile Phe Lys His Tyr
 145 150 155 160
 Gly Ser Met Ser Gly Cys Ile Ser Asn Met Lys Val Glu Ala Ser Cys
 165 170 175
 Pro Ala Pro Ser Pro Leu Trp Glu Asn Phe Val His Val Leu Ser Gln
 180 185 190
 Leu Phe Gly Lys Gly Gly Pro Ser His Cys Pro Leu Gly Gly Phe Asp
 195 200 205
 Val His Cys Val Gly Arg Ser Leu Pro Ser Ile Leu Phe Tyr Phe Cys
 210 215 220
 Arg Ile Ser Ala Gln Ser Gly Ser Ala Trp Gln Phe Ser Cys Ser Ala
 225 230 235 240
 Arg Glu Val Leu Cys Pro Gly Leu Cys Asp Phe Arg Arg Arg Glu Gly
 245 250 255
 Ser Cys Arg Pro Tyr Leu Gln Trp Leu Pro Pro Gly Ile Pro Val Cys
 260 265 270
 Ser Leu Cys Thr Val Gln Arg Arg Ser Gly Ser Trp Trp Arg Asp Gly
 275 280 285
 Asp Pro Arg Thr Met Ala Ser Thr Lys Ala Gly Gly Ala Cys Asp Arg
 290 295 300
 Arg Trp Thr Met Thr Gln Val Pro Ala Arg Tyr Gly Ser Gly Leu Cys
 305 310 315 320
 Arg Glu Gly Ala His Pro Gly
 325

<210> 211
 <211> 327
 <212> PRT
 <213> Homo sapiens

<400> 211

Cys Gln Phe Gly Ala Leu Gly Tyr Ala Gly Pro Val Arg Arg Val Pro
 1 5 10 15
 Ser Leu Pro Gly Pro Pro Ala Thr Val Cys Pro Val Pro Ala Ser Glu
 20 25 30
 Phe Ser Gln His Arg Lys Arg Gly Leu Arg Thr Ile Gln Pro Val His
 35 40 45
 Ser Arg Glu Ser Leu Ser Val Ser Gln Arg Leu Met Gly Cys Leu Trp
 50 55 60
 Cys Arg Val Thr Pro Ala Ser Pro Cys Gly Gly Cys Ala Gly Gly Ala
 65 70 75 80
 Arg Pro Pro Pro Cys Ala Leu Ser Leu Ala Gln Gly Gln His Thr Ala
 85 90 95
 His Pro Leu Phe Phe Leu Pro Phe Pro Leu Ala Gln Pro Leu Val Val
 100 105 110
 Gly Val Thr Arg Gly Ala Glu Arg Ser Trp Arg Ser Arg Ala Cys Pro
 115 120 125
 Gly Pro Val Arg Glu Gly Gly Arg Gly Gln Gln His Pro Trp Arg Arg
 130 135 140
 Glu Asp Tyr Ile Ile Phe Ile Tyr His Met Pro Lys Ile Ala Leu Leu
 145 150 155 160
 Arg Ala Phe Asp Ile His Pro Lys Ile Phe Lys His Tyr Gly Ser Met
 165 170 175
 Ser Gly Cys Ile Ser Asn Met Lys Val Glu Ala Ser Cys Pro Ala Pro
 180 185 190
 Ser Pro Leu Trp Glu Asn Phe Val His Val Leu Ser Gln Leu Phe Gly
 195 200 205
 Lys Gly Gly Pro Ser His Cys Pro Leu Gly Gly Phe Asp Val His Cys
 210 215 220
 Val Gly Arg Ser Leu Pro Ser Ile Leu Phe Tyr Phe Cys Arg Ile Ser
 225 230 235 240
 Ala Gln Ser Gly Ser Ala Trp Gln Phe Ser Cys Ser Ala Arg Glu Val
 245 250 255
 Leu Cys Pro Gly Leu Cys Asp Phe Arg Arg Arg Glu Gly Ser Cys Arg
 260 265 270
 Pro Tyr Leu Gln Trp Leu Pro Pro Gly Ile Pro Val Cys Ser Leu Cys
 275 280 285
 Thr Val Gln Arg Arg Ser Gly Ser Trp Trp Arg Asp Gly Asp Pro Arg
 290 295 300
 Thr Met Ala Ser Thr Lys Ala Gly Gly Ala Cys Asp Arg Arg Trp Thr
 305 310 315 320
 Met Thr Gln Val Pro Ala Arg
 325

<210> 212
 <211> 310
 <212> PRT
 <213> Homo sapiens

<400> 212

His Glu Leu Ser Leu Pro Cys Gly Gln Ser Pro Val Ile Lys Lys Glu
 1 5 10 15
 His Thr Pro Ser Leu Thr Glu Thr Ser Leu Asn Lys Lys Asn Ala His
 20 25 30
 Gln Arg Asn Ile Glu Phe Lys Tyr Leu Glu Gln Met Ser Glu Ile Ser
 35 40 45
 His Lys Asn Leu Asn Arg Asn Trp Pro Ser Lys Ser Trp Glu Phe Gly
 50 55 60
 Asp Ala Asn Phe Ile Leu Ser Ile Leu Glu Gln Ser Lys Ile Asn Thr
 65 70 75 80
 Thr His Phe Ser Leu Arg Lys Ser Ala Tyr Leu Phe Asp Val Pro Ser
 85 90 95
 Gly Leu Glu Ile Pro Asn Lys Thr Leu Thr Leu Phe Ile Leu His His
 100 105 110
 Asn Ile Thr Val Asn Lys Asn Asn Leu Asn Leu Cys Ser Asn Phe Pro
 115 120 125
 Leu Trp Thr Gln Arg Lys Thr Gln Glu Lys Met Val Glu Cys Val Leu
 130 135 140
 Asn Lys Val His Tyr Leu Tyr Gln Lys Tyr Ala Val Ile Ser Thr Ser
 145 150 155 160
 Thr Pro Lys Cys Leu Phe Asn Phe Ala Met Met Tyr Lys Ile Leu Val
 165 170 175
 Thr Cys Gln Ser Ile Asn Phe Ser Gln Leu Ile Leu Lys Ala Glu Asp
 180 185 190
 Ser His His Phe Val Cys Phe Ser Val Asn Met Ile Val Phe Val Arg
 195 200 205
 Lys His Ile Tyr Pro Glu Ser Tyr Gly Pro Met Phe Leu Thr Phe Cys
 210 215 220
 Pro Arg Ser Val Cys Val Ala Ser Cys Val Cys Met Asp Val Asp Asn
 225 230 235 240
 Lys Leu Asp Ser Tyr Gln Glu Ser Lys Ile Lys Leu Leu Ser Cys Lys
 245 250 255
 Lys Phe Val Lys Tyr Val Asp Leu Ser Cys Leu Lys Leu Arg His Pro
 260 265 270
 Gly His Ser Leu Trp Arg Glu Asn Ser Pro Pro Leu His Val Asn Leu
 275 280 285
 Trp Val Gly Thr Gly Val Gln Gly Phe Arg Val Gly Leu Leu Leu Pro
 290 295 300
 Gly Met Ile Gln Lys Ile

305

310

<210> 213
 <211> 314
 <212> PRT
 <213> Homo sapiens

<400> 213

Lys Ala Asp Lys Ile Thr Phe Leu Glu Ser Ser Ile Tyr Ser Leu Ile
 1 5 10 15
 Val Phe Leu Tyr Ile Thr Leu Ser Gln Leu Trp Ser Lys Glu His Ser
 20 25 30
 Thr Glu Glu Gly Gly Ser Leu Ile Phe Pro His Leu Val Thr Pro Met
 35 40 45
 Leu Glu Leu His Glu Ile Asp Asn Tyr Tyr Tyr Ile Val Ile Ser Phe
 50 55 60
 His Val Leu Ser Phe Ser Ser Ser Leu Leu Leu Phe Phe Lys Ser Arg
 65 70 75 80
 Lys Gln Asn Gly His Gln Leu His Glu His Cys Ser Lys Lys Ile Thr
 85 90 95
 Val Arg Pro Asn Leu Asn Cys Trp Leu Pro Gly Arg Ala Ile Leu Ile
 100 105 110
 Ala Tyr Lys Asp Gln Ile Lys Tyr Gln Ser Gln Val Val Arg Cys Pro
 115 120 125
 Cys Thr Glu His Asn Ile Val Tyr Lys Asp Val Glu Leu Leu Leu Leu
 130 135 140
 Leu Trp Phe Tyr Thr Val Ala His Asp Lys Glu Leu Ile Phe Tyr Leu
 145 150 155 160
 Asn Glu Val Leu Phe Tyr Ile Thr Tyr Phe Met Phe Phe Pro Gln Glu
 165 170 175
 Ser Phe Asn Leu Leu Arg Leu Arg Asp Ser Phe Lys Cys Phe Asp Pro
 180 185 190
 His Thr Leu Phe Ala Gly Cys Arg Arg Met Cys Met Ile Leu Thr Phe
 195 200 205
 Thr Ala Asn Leu Phe Phe Trp Met Gly Tyr Cys Asn Phe Leu Leu Glu
 210 215 220
 Asp His Thr Ser Ser Ser Met Phe Arg Arg Gly Leu His Leu Trp Phe
 225 230 235 240
 His Gly Trp Thr Leu Asp Pro Leu Trp Leu Ser Lys Ile Leu His Gln
 245 250 255
 Cys Asn Ser Phe Val Asn Gly Tyr Met Ile Gln Ala Gly Pro Ile Arg
 260 265 270
 Ala Leu Pro Arg Val Leu Leu Glu Leu Leu Gly Arg Glu Ile Leu Ser
 275 280 285
 Ser Thr Lys Val Ile Phe Trp Arg Asn His Asp Gln Glu Ser Gln Cys
 290 295 300

Met Glu Asn Lys Ser Arg Glu Lys Lys Lys
305 310

<210> 214
<211> 320
<212> PRT
<213> Homo sapiens

<400> 214

Met His His Val Phe Ile Leu Trp Pro Leu Ile Asp Ser Trp Asp Val
1 5 10 15

Lys Glu Leu Ile Leu Tyr Thr Tyr Ala Asn Leu Lys Pro Ser Ile Ile
20 25 30

Ser Leu Thr Ser Pro Val Ser Ser Leu Cys Leu Cys Tyr Gln Gln Val
35 40 45

Asn Phe Ser Val Leu Pro His His Lys Pro Gln Leu Pro Leu His Met
50 55 60

Phe Pro Lys Leu Val Ala Asn Ser Val Phe Pro Gly Glu Cys Ile Lys
65 70 75 80

Tyr Pro Gly Ile His Cys Tyr Thr Val Ser Asn Gly Ser Ser Phe Ser
85 90 95

Leu Leu Trp Arg Arg Thr Pro Glu Glu Ser Thr Ser Pro Gly Pro Ala
100 105 110

Ala Ser Cys Met Gly Asn Leu Leu Leu Leu Leu Gly Phe Thr Leu
115 120 125

His Ile Leu Ser Leu Arg Lys His Thr Lys Ser Phe His Val Phe Val
130 135 140

Pro Val Pro Met Pro Leu Leu Pro Gly Ile Pro Phe Phe Tyr Ser Tyr
145 150 155 160

Ser Leu Asn Lys Leu Phe Tyr Ser Phe Ser Ser Gly Pro Leu Pro Leu
165 170 175

Ile Gln Leu Arg Asn Asn Tyr Cys Leu Ser Pro Ser Lys Leu Ile Phe
180 185 190

Cys Leu Leu Phe Ser His His Thr Leu Pro Phe Thr Ser Val Ala Tyr
195 200 205

His Phe Phe Cys Tyr Leu Thr Asn Ala Ser Val Phe Ile His Ser Pro
210 215 220

Pro Arg Leu Tyr Ser Ser Trp Val Gln Ser Ile Ser His Ser Phe Leu
225 230 235 240

Cys Tyr Leu Cys Leu Ser Gln Cys Trp Leu Gln Ser Arg Tyr Phe Arg
245 250 255

Asp Ala Ile Ile Arg Val Arg Val Val Arg Ile Gly Glu Asn Glu Asp
260 265 270

Ser Met Val Leu Arg Cys His Ala Ser Cys Lys Glu Asn Met Lys Gly
275 280 285

00100US1.ST25

His Phe Phe Phe Leu Gln Leu His Gly Leu Leu Gln Ser Leu Cys Leu
290 295 300

Leu Gly Leu Glu Leu Pro Ala Ile Ser Val Phe Val Arg Leu Leu Ile
305 310 315 320

<210> 215

<211> 317

<212> PRT

<213> Homo sapiens

<400> 215

Pro Val Asn Ala Lys Asp Ile Leu Phe Gly Leu Glu Ile Lys Leu Leu
1 5 10 15

Met Pro Ile Trp Pro Tyr Ala Leu Arg Thr Leu Leu His Asn Lys Ile
20 25 30

Ala Val Arg Val Thr Lys Trp Lys Met Asn Asn Met Tyr Arg Glu Arg
35 40 45

Ile Gln Lys Arg Asn Leu Tyr Phe Ile Phe Ser Lys Leu Pro Gln Ile
50 55 60

Cys Leu Arg Lys Leu Tyr Asp Leu Val Asn Arg Ile Leu Lys Thr Leu
65 70 75 80

Ile Tyr Lys Ser Gln Val Trp Ala Leu Val Thr Ser Leu Asn Asp Trp
85 90 95

Leu Ala Asp Asn Leu Ser Gly Ser Ser Tyr Leu Glu Ile Glu Asn Thr
100 105 110

Ser Leu Pro Phe Tyr Asn Ser Pro Gln Leu Phe Gln His Thr Gln Cys
115 120 125

Asp Lys Lys Pro Ser Gln Ala His Phe Ser Asn Asn Glu Phe Val Gly
130 135 140

Ser Phe Lys Cys Gln Gly Gln Gln Val Arg Ala Gly Ser Glu Ala Asp
145 150 155 160

Ile Phe Gly Glu His Gly Leu Ala Phe Ser Phe Leu Gly Thr Phe Val
165 170 175

Leu Trp Met Glu Ser Ile Leu Gly Gln Ala Glu Val Leu Leu Ser Trp
180 185 190

Trp Gln Asp Gly Tyr Ala Arg Gln Pro Ser Cys Leu Gln Arg Ala Cys
195 200 205

Leu Val Arg Ser Phe Gly Ile Ser Ser Asp Leu Met Asn Leu Gly Leu
210 215 220

Met Phe Ile Pro Gly Tyr Ile Ser Phe Ala Gln Val Asn Gly Tyr Val
225 230 235 240

Asp Cys His Thr Trp Val Ser Val Thr Thr Pro Gly Phe Ser Asp Gly
245 250 255

Val Ser Pro Lys Gly Pro Thr Arg Val Glu Glu Ser Gly Ser Trp Lys
260 265 270

Glu Ser Gln Gly Lys Gly Lys Gly Thr Asn Ala Arg Trp Ala Val Asn

275 280 285
 Gly Ser Cys Pro Asn Phe Met Pro Glu Pro Leu Lys Gly Ile Phe Thr
 290 295 300
 Leu Thr Val Gly Ile Asn Ile Gly Arg Gly Asp Ala Trp
 305 310 315
 <210> 216
 <211> 319
 <212> PRT
 <213> Homo sapiens
 <400> 216
 Arg Lys Lys Asp Asp Ser Ile His Val Arg Arg Asn Ser Ala Arg Met
 1 5 10 15
 Gln Lys His Lys Tyr Glu Lys Arg Val Tyr Cys Phe His Asn Lys Thr
 20 25 30
 Lys Thr Arg Lys Glu Ile Ala Cys Gly Lys Glu Lys Gln Ser Lys Lys
 35 40 45
 Arg Lys Thr Asn Leu His Val Ala Asn Leu Phe Val Thr Phe Gln Ile
 50 55 60
 His Met Ser Cys Ala Met Ile Thr Arg Gly Phe Pro Asp Lys Phe Cys
 65 70 75 80
 Phe Ser Ile Ile Phe Leu Gln Leu Tyr Lys His Gly Phe Tyr Ser Asp
 85 90 95
 Asn Leu Ser Phe Asp Ile Phe Phe Ile Asp Tyr Gln Arg Ile Leu Glu
 100 105 110
 Thr Asn Gln Ala Gln Tyr Phe Asn Phe Gln Phe Ser Leu Pro Val Ile
 115 120 125
 Leu Leu Pro His Thr Ala Ser Thr Pro Ser Trp Tyr Gln Leu Lys Lys
 130 135 140
 Tyr Tyr Val Arg Met Thr Ser Val Thr Leu Val Leu Phe Ile Leu Asn
 145 150 155 160
 His Ser Glu Pro Tyr His Cys Val Leu Asn Leu His Leu Thr Asp Pro
 165 170 175
 Tyr Leu Cys Ser Ser Ser Ser Ala Leu Asp Leu Cys Phe Gln Ala Leu
 180 185 190
 Arg Phe Tyr Asn Val Ile Asn Pro Leu Ser Leu Ile Phe Ser Ser Pro
 195 200 205
 Leu Thr Cys Met Cys Val Glu Ser Val Tyr Met Leu Glu Asn Tyr Thr
 210 215 220
 Thr Phe Thr Arg Phe Ile Leu Leu Val Tyr Leu Thr Leu Thr His Phe
 225 230 235 240
 Tyr Ser Leu Gly His Tyr Leu Cys Met Ala Tyr Ala Glu Val Gly Ser
 245 250 255
 Gly His Tyr Lys His Gln Glu Thr Ile Ser Ile Thr Pro Cys Ile His
 260 265 270

00100US1.ST25

Val His Val Val Leu Lys Tyr Asn Val Lys Tyr Arg Glu Val Thr Leu
275 280 285

Gly Leu Asn Ser Gly Val Ser Ala Arg Leu Gly Leu Ile Thr Thr Leu
290 295 300

Leu Leu Ala Asn Tyr Ala Ser Leu Asn Pro Cys Ala Ser Lys Leu
305 310 315

<210> 217

<211> 313

<212> PRT

<213> Homo sapiens

<400> 217

Trp Pro Gln Ile Ser Phe Pro Pro Tyr Val Pro Leu Val Ser Thr Asn
1 5 10 15

Leu Phe Leu Pro Tyr Trp Ser Gly Gln Cys Pro Pro Asp Thr Ala Val
20 25 30

Leu Pro Thr Gly Leu Leu Ser Ser Phe Leu Ser Val Ile Ile Leu Ala
35 40 45

Cys Leu Trp Leu Lys Ala His Leu Cys Gly Pro Gln Arg Asn Tyr Leu
50 55 60

Pro Leu His Ser Ser Ser Trp His Leu Ser Leu Met Asp Ser Tyr Tyr
65 70 75 80

Pro Leu Leu Leu Leu Cys Ala Phe Met His Ile Ile Leu Ala Pro Pro
85 90 95

Asp Gln Leu Ser Leu Gly Gln Gly Phe Asp Leu Val Pro Ile Tyr Ser
100 105 110

Ser Pro Arg Ala Ser Leu Leu His Thr Val Gly Trp Gly Lys Ile Phe
115 120 125

Ala Tyr Ala Asp Asp Leu Arg Lys Ile Ile Leu Gln Thr Gly Glu Val
130 135 140

Lys Ile Ser Leu Ser Cys Ser Ile Trp Asn Glu Leu Val Ala Gly Asn
145 150 155 160

Gln Leu Glu Val Ser Ser Glu Gly Asn Thr Trp Thr Tyr Pro Leu Leu
165 170 175

Gln Val Ser Tyr Leu Tyr Lys Asp Cys Val Pro Val Thr Asn Leu Phe
180 185 190

Leu Asn His Trp Cys Cys Tyr Leu Gln Glu Gly Leu Gly Gln Ile Cys
195 200 205

Glu Glu Thr Ser Met Tyr Thr His Pro Tyr His Leu Lys Asn Lys Phe
210 215 220

Val Cys Val Pro Leu Met Lys Tyr Glu Glu Arg Ser His Ser Phe Gln
225 230 235 240

Ser Thr Gln Ala Leu Cys Leu Gly Leu Leu Ala Thr His Ala Lys Ile
245 250 255

00100US1.ST25

Leu Tyr Gln His Phe Val Lys Pro Thr Ile Leu Thr Val Pro Ala Leu
260 265 270

Gln Pro Val Ile Asp Ser Asn Phe Asn Ser Pro Leu Val Ala Ile Ser
275 280 285

Asp Ala Gln Cys Leu Cys Leu Leu Pro Leu Cys Ile Pro Ser Pro Ala
290 295 300

Leu Asn Ser Ala Gly Cys Ile Gln Glu
305 310

<210> 218

<211> 313

<212> PRT

<213> Homo sapiens

<400> 218

Thr Cys Ser Ser Thr Asp Ser Lys Val Ile Leu Lys Ser Gln Leu Asn
1 5 10 15

Val Ile Thr Arg Cys Arg Asp Ser Arg Tyr Val Tyr Ser Glu Arg Asn
20 25 30

Cys Ser Pro Ser Val Ile Leu Ile Lys Val Lys Ser Phe Gln Asn Ala
35 40 45

Met Val Gly Gln Thr Asn Arg His Ser His Ser Lys Arg Glu Lys Glu
50 55 60

Gly Ile Leu Gln Gln Gln Gln Ser Lys Arg Ile Leu Arg Leu Gln Asn
65 70 75 80

Asn Leu Leu Leu Met Pro His Leu Pro Ile Phe Gln Ala His Leu Gly
85 90 95

Arg Arg Trp Ala Pro Lys Ala Leu Gly Val Pro Val Pro Ala His Met
100 105 110

Thr Ala Leu Thr Tyr Ser His Met Pro Gly Trp Lys Cys Pro Leu Val
115 120 125

Ala Leu Leu Val Tyr Gly Gln Arg Val Gly Leu Leu Leu Cys Gln
130 135 140

Ala Gln Pro Trp Arg Leu Phe Val Val Ala Pro Pro Leu Cys Gln Phe
145 150 155 160

Phe Ala Ala Ser Arg Leu Ser Arg Ala Ser Phe Glu Ile Cys Val Glu
165 170 175

Ser Ala Phe Pro Leu Trp Tyr Cys Thr Val Cys Pro Gly Gly Asp Asp
180 185 190

Thr Arg Thr Leu Pro Thr Phe Ile Ile Cys Ala Leu Gln Lys Gly Gly
195 200 205

His Trp Ser Pro His His Thr Trp Thr Leu Trp Ser His Ala Trp Asn
210 215 220

Asp Ala Val Leu Cys Gln Lys Ala Gly Ser Arg Asp Glu Val Ala Gly
225 230 235 240

Arg Lys Cys Ala Pro Val Gly Ile Leu Gly Pro Ser Phe Asp Leu Val

245

250

255

Leu Ser Pro Arg Pro Trp His Ala Gly Pro Val Met Gly Ala Ala Ala
 260 265 270

Val Met Met Ser Glu Met Leu Leu Val Gly Val Ile Pro Pro Leu Pro
 275 280 285

Lys Ala Pro Gly Phe Cys Ser Ser Met Leu Ile Ser Asn Gly Cys Trp
 290 295 300

Ala Thr Ser Leu Val Phe Ser Pro Lys
 305 310

<210> 219

<211> 318

<212> PRT

<213> Homo sapiens

<400> 219

His Arg Asn Ile Leu Gln Asn Phe Asn Ile Thr Val Leu Asn Ser Val
 1 5 10 15

Lys Thr Lys Asp Asn Pro Leu His Pro Asn Met Thr Ala Phe Asn Ile
 20 25 30

Leu Leu Tyr Phe Ser Leu Phe Ala Met Tyr Ile Ile Leu Gln Ser Cys
 35 40 45

Asn His Thr Gln Tyr Met Ile Leu Ser Cys Phe Pro Thr Tyr His Tyr
 50 55 60

Arg Tyr Phe Tyr Cys Tyr Ile Val Phe Met Val Val Ile Val Asn Ser
 65 70 75 80

Tyr Ala Val Ile Val His Ile Glu Val Leu Tyr Leu Leu Ser Tyr Pro
 85 90 95

Ile Ile Phe Lys Gln Phe Leu Ile Ser Phe Tyr Asn Lys His Gly His
 100 105 110

Ile Ser Asp Arg Gly Val Leu Phe His Ile Leu Thr Tyr Phe Ser His
 115 120 125

Ser Val Thr Ile Thr Pro Lys Asn Thr Asn Phe Leu Ser Leu Asp Val
 130 135 140

Tyr Phe Gln Lys Ile Phe Lys Arg Cys Ile Asn Leu Leu Cys Ser Trp
 145 150 155 160

Cys Lys Arg Pro Phe Cys His Cys Phe Leu Glu Ser Arg Ala Ser Lys
 165 170 175

Ser Arg Asp Met Trp Leu Gly Gly Arg Asn Pro Ala Trp Gly Arg His
 180 185 190

Ser Val Lys Asn Ser Ser Ser His Trp Tyr Thr Gly Phe Ile Phe Leu
 195 200 205

Cys Phe Leu Gln Thr Glu Gln Leu Ile Thr Leu Trp Val Leu Phe Val
 210 215 220

Phe Thr Ile Val Gly Asn Ser Val Val Leu Phe Ser Thr Trp Arg Arg
 225 230 235 240

00100US1.ST25

Lys Lys Lys Ser Arg Met Thr Phe Phe Val Thr Gln Leu Ala Ile Thr
 245 250 255
 Gly Lys Leu Cys Lys Glu Ala Gly Ser Tyr Met Ser Pro Tyr Gly Phe
 260 265 270
 Leu Leu Leu Met Asn Phe Ile Lys Lys Lys Met Arg Ile Gly Gln
 275 280 285
 Phe Gly Asn Asn Phe Lys Asn Ile Lys Pro Ile Phe Glu Tyr Phe Leu
 290 295 300
 Trp His Thr His Ile Met Pro Leu Arg Phe His Tyr Lys Ser
 305 310 315
 <210> 220
 <211> 320
 <212> PRT
 <213> Homo sapiens
 <400> 220
 Ile Ile Pro Ser Val Ile Phe Phe Tyr Cys Arg His Cys Lys Ser Leu
 1 5 10 15
 Asn Leu Asp Lys Ser Tyr Ser Gly Gln Asn Lys Asn Phe Thr Val Ile
 20 25 30
 Asn Val Cys Ser Cys Thr Cys Glu Val Lys Ser Phe Ser Leu Leu Ser
 35 40 45
 Asn Ser Tyr Val Pro Asn Ile Phe Ser Lys Phe Leu Lys Thr Tyr Asn
 50 55 60
 Gly Glu Lys Asn Asn Pro Phe Ser Ser Pro Ala Ser Leu Met Lys Asn
 65 70 75 80
 Ser His Phe Ser Leu Phe Leu Leu Phe Leu Leu Val Val Phe His Ile
 85 90 95
 Ser Cys Leu Ser Ala Val Ser Cys Phe Met Gln Phe Arg Pro Tyr Leu
 100 105 110
 Leu Thr Ser Leu Ser Phe Gln Tyr Lys Asp Ser Cys Ile Phe Ser Phe
 115 120 125
 Asn Phe Thr Phe Leu Asn Ser Pro Phe Pro Phe Cys Asp Pro Gly Ile
 130 135 140
 Ser Gly Val Leu Phe Phe Phe Ile Leu Pro Asp Phe Ile Tyr Ile Cys
 145 150 155 160
 Val Tyr Ser Phe Leu Leu Phe Phe Lys Leu Lys Thr Cys Leu Ser Ser
 165 170 175
 Lys Ser Gly Ser Phe Phe Phe Ser Trp Arg Pro Leu Ser Gln Asn Pro
 180 185 190
 Leu Ser Phe Cys Phe Asn Glu Asp Tyr Met Leu Ser Leu Trp Leu Pro
 195 200 205
 Ser Cys His Trp Ser Ser Ser Leu Cys Cys Tyr Pro Gly Leu Lys Leu
 210 215 220

00100US1.ST25

Leu Phe Leu Asp Pro Ile Leu Ser Leu Ser Trp Phe Ile Thr Leu Phe
225 230 235 240

Cys Trp Gly Thr Ser Ser Cys Met Trp Asn Val Met Ser Ala Ser Leu
245 250 255

Cys Phe Lys Met Tyr Ile Phe Cys Pro Leu Phe Asp Leu Ala Glu Asn
260 265 270

Arg Ile Leu Asp Cys Lys Ile Gln Lys Leu Leu Gln Arg Leu His His
275 280 285

Arg Gln Lys Asn Leu Cys Thr His Phe Pro Pro Thr Ser Ser Pro Pro
290 295 300

Ala Ala Arg Ser Asn His Glu Ser Phe Cys Gln Asn Arg Phe Ala Tyr
305 310 315 320

<210> 221

<211> 318

<212> PRT

<213> Homo sapiens

<400> 221

Cys Ile Lys Val Phe Ile Leu Lys Gly Lys Ala Thr Met Ile Ala Gln
1 5 10 15

Leu Trp Tyr Ile Ile Ile Ser His Ile Ile Phe Leu Leu Leu Glu Lys
20 25 30

Gly Ile Tyr Asp Phe Ser Arg Met His Thr Glu Lys Pro Leu Cys Ile
35 40 45

Ile Leu Cys Glu Ser Lys Leu Cys Thr Tyr Phe Glu Val Ile Cys Ile
50 55 60

Leu Cys Arg Arg Lys Glu Asn Asn Leu Leu Tyr Phe Val Cys Gly Ile
65 70 75 80

Gly Asn Val Phe Leu Thr Lys Pro Lys Asn Ile Ser His Ser Lys Gly
85 90 95

Lys Met Gly Leu Asn Glu Lys Met Val Asp Leu Lys Tyr Gly Gly Arg
100 105 110

Phe Phe Trp Gly Thr Leu Asp Leu Ile Met Phe Phe Ser Ile Pro Phe
115 120 125

Leu Gln Met Phe Ile Ile Leu Leu Leu Phe Ile Tyr Ala Ala Ile Ile
130 135 140

Tyr Val Cys Ser Cys Phe Ser Cys Ser Gln Thr Leu Tyr Asn Val Ile
145 150 155 160

Ile Gln His Glu Ser Phe Ser Ile Leu Leu Phe Leu Val Asn Ile Ile
165 170 175

Ile Trp Gly Tyr Trp Cys Thr His Cys Gln Phe Ile His Phe Asn Tyr
180 185 190

Ser Thr Gly Phe Trp Ser Met Asn Ile Ser Tyr Phe Ile Tyr Leu Tyr
195 200 205

Pro Ile Asp Val Tyr Leu Val Pro Ile Phe Ala Val Lys Asn Asn Ala

210

215

220

Ala Ile Lys Pro Ser Gly Ile Cys Phe Ser Lys Cys Ile Pro Arg Ser
 225 230 235 240

His Arg Phe Ser Gly Cys His Ser Leu Lys Leu Leu Gly Lys Thr Val
 245 250 255

Arg Ile Leu Gly Asn Leu Leu Asn Leu Thr Trp Leu Asn Phe Leu Ala
 260 265 270

Gln Met Arg Val Val Leu Asp Leu Ile Lys Asn Met Val Ile Phe Cys
 275 280 285

Glu Thr Leu Ala Asn Tyr Asp Asn Lys Trp Ser Leu Gly Ile Ser Val
 290 295 300

Ile Thr Ala Ile Lys Arg Gly Leu Lys Tyr Pro Lys Glu Lys
 305 310 315

<210> 222

<211> 317

<212> PRT

<213> Homo sapiens

<400> 222

Asn Tyr Leu Ser Asp Cys His Ser Phe Met Glu Leu Ser Val Asn Lys
 1 5 10 15

Val Leu Leu Tyr Val Asn Met Arg Leu Ile Phe Phe Leu Ser Leu Leu
 20 25 30

Phe Gly Leu Tyr Phe Phe Gln Val Arg Ala Ile His Gly Ser Ala Ser
 35 40 45

Thr Asp Gln His Leu Leu Ser Tyr Phe Ala Ile Trp Leu Pro Gly Leu
 50 55 60

Arg Glu Cys Phe Phe Asn Leu Tyr Trp Trp His Cys Trp Leu Leu Ile
 65 70 75 80

Leu Leu Phe Val Leu Ala Arg Leu Leu Phe Lys Arg Arg Val Ile Asn
 85 90 95

Ser Val Leu Arg Ala Glu Val Lys Tyr Arg Met Glu Leu Glu Glu Asn
 100 105 110

Glu Ala Ser Ile Ser Val Lys Lys Ser Phe Ile Lys Ala Val Gly Asp
 115 120 125

Arg Glu Leu Gly Val Thr Ile Leu Val Pro Ile Val Met Val His Pro
 130 135 140

Gly Lys Ile Gln Gly Lys Arg Glu Ser Leu Trp Lys Ser Phe Gly Cys
 145 150 155 160

Val Leu Ser Cys Phe Arg Lys Leu Ala Asn Phe Tyr Thr Ser Val Phe
 165 170 175

Arg Leu Ser Cys Leu Asp Thr His Pro Thr Gln Ser Ala Gln Gln Tyr
 180 185 190

Phe Leu Cys Ser Ser Leu Ser Pro Gly Ile Arg Met Ala Pro Leu Gly
 195 200 205

Glu Leu Leu Ser His Met Ile Lys Asp Leu His Tyr Phe Leu Ser Lys
210 215 220

Ser Arg Arg Lys Val Gly Glu Leu Ala Trp His Leu Ala Gly Thr Tyr
225 230 235 240

Asn Thr Ala Ser Thr Trp His Leu Leu Asp Arg Leu Pro Leu Pro Thr
245 250 255

Val Val Thr Thr Ser Met Gly Gly Gly Trp Cys Cys Thr Val Pro Met
260 265 270

Gly Trp Cys Ala Cys Ser Pro Met Pro Pro Ala Leu Pro Gln Cys Cys
275 280 285

Leu Leu Gln Ser His Leu Phe Arg Trp Ser Ile Leu Ile Glu Lys Val
290 295 300

Leu Gly Thr Ile Cys Leu Lys Cys Ser Pro Ala Asn Val
305 310 315

<210> 223

<211> 314

<212> PRT

<213> Homo sapiens

<400> 223

Leu Cys Tyr Cys Val Ile Ile Ile Ile Val Pro Phe Pro Ser Ile Pro
1 5 10 15

Gln Thr His Thr Tyr Val Glu Ile Leu Arg Gly Asp Asp Val Leu Phe
20 25 30

Thr Ser Ala Cys Leu Met Leu Ser Pro Val Leu Gly Thr Asn Ala Ile
35 40 45

Val Phe Leu Glu His Glu Ile His Gln Lys His Glu Trp Ile Trp Trp
50 55 60

Gly His Lys Arg Leu Thr Pro Gly Ser Arg Asn Leu Gly Gly Glu Thr
65 70 75 80

Ser Gly Leu Glu Gly Ala Glu Asp His Cys Val Arg Ser Thr Trp Phe
85 90 95

Trp Leu Ala Gly Leu Ala Arg Met Gln Arg Ser Phe Trp Val Leu Leu
100 105 110

Lys Phe Lys Thr Thr Ile Ile Ile Asn Ile His Leu Val Leu Thr Met
115 120 125

Cys Gln Ser Leu Ile Ala Phe Tyr Val Phe Ser His Ser Ser Lys Phe
130 135 140

Gly Leu Asp Ile Phe Pro Val Tyr Thr Ile His Met Arg Lys Arg Val
145 150 155 160

Glu Gln Gly Gly Ala Glu Thr Cys Pro Arg Ile His Ser Lys Asn Gly
165 170 175

Asn Trp Asp Trp Ser Pro Arg Asp Ser Cys Phe Leu Asp Phe Val Phe
180 185 190

00100US1.ST25

Leu Ile Ser Leu Pro Leu Arg Leu Phe Ile Asp Ile Phe Thr Phe Tyr
195 200 205

Phe Glu Ile Ile Val Asp Ser Gln Glu Val Thr Arg Glu Arg Ser Cys
210 215 220

Val Leu Phe Thr Gln Ile Ser Pro Met Leu Arg Phe Tyr Ile Thr Val
225 230 235 240

Ile Gln Tyr Glu Asn Gln Glu Thr Asp Ile Gly Ser Ile Tyr Val Tyr
245 250 255

Thr Ser Met Pro Phe His His Val Met Pro Pro Ser Pro Ser Cys Arg
260 265 270

Thr Val Pro Ser Pro Arg Arg Ser Ala Thr Cys Cys Ser Phe Lys Val
275 280 285

Ile Pro Ala Leu Phe Pro Val Pro Thr His Cys His Tyr Ala Pro Leu
290 295 300

Val Thr Thr Asn Leu Phe Ser His Leu Tyr
305 310

<210> 224

<211> 321

<212> PRT

<213> Homo sapiens

<400> 224

Lys Pro Ser Ser Gly Cys Gly Gly Trp Met Trp Asp Trp Met Gly Thr
1 5 10 15

Gln Lys Asn Ile Lys Thr Met Ala Thr Val Ile Ile Ile Val Ile Asn
20 25 30

Ser Gln Asp Asn Asn His Leu Ala Thr Val Ala Met Tyr Leu Lys Asp
35 40 45

Tyr Ser Leu Gly Val Phe Phe Leu Met Ser Met Glu Gln Asp Asp Trp
50 55 60

Ala Phe Glu Asp Ile Lys Glu Thr Lys Gly Pro Asp Cys Asn Gln Arg
65 70 75 80

Phe His Ser His Arg Pro Gly Phe Thr Trp Gln His Thr Phe Trp Thr
85 90 95

Phe Phe Phe Phe Ser Gly Lys Glu Thr Gly Ser Val Glu Asn Gly Arg
100 105 110

Met Arg Thr Asn Cys Arg Ala Leu Pro His Ser Trp Thr Leu Ser His
115 120 125

Ser Ser Arg Trp Gly Pro Pro Ala His Cys Trp Leu Cys Pro Pro Gln
130 135 140

Phe Leu Arg Ile His Thr Asp Phe Ala Lys Ile Leu Arg Tyr Val Gly
145 150 155 160

His Glu Leu Trp Val Cys Ala His Leu Val Pro Ser Leu Tyr Ser Thr
165 170 175

Leu His Ser Ser Gly Val Phe Leu Thr Ala Gly Ala Thr Phe His Leu

180

185

190

His His Tyr Tyr Ile Lys Trp Ala Ser Ile Phe Pro Ser Glu Phe Gln
 195 200 205

Pro Leu Ser Gly Asn Leu Thr Phe Phe Leu Val Ser Phe Ala Leu Arg
 210 215 220

Phe Cys Pro Phe Tyr Cys Ser Asn Glu Phe Thr Gln Pro Ser Ile Pro
 225 230 235 240

His Glu Ser Gly Gln Asp Pro Val Thr Cys Asp Ser His Thr Asp Cys
 245 250 255

Val Arg Val Thr Pro Pro Val Pro Gly Phe Pro Glu Pro Cys Leu Ser
 260 265 270

Arg Leu Thr Gly Gln Ser Trp Asp Met Asn Trp Ala Pro Glu Leu Ala
 275 280 285

Leu Phe Val Ser Arg Ser Ser Arg Cys Leu Cys Arg Leu Pro Asn Pro
 290 295 300

Cys Ser Trp Ala Trp Val Ala Glu Ser Ala Gly Arg Leu Trp Cys Met
 305 310 315 320

His

<210> 225

<211> 314

<212> PRT

<213> Homo sapiens

<400> 225

Leu Cys Tyr Cys Val Ile Ile Ile Ile Val Pro Phe Pro Ser Ile Pro
 1 5 10 15

Gln Thr His Thr Tyr Val Glu Ile Leu Arg Gly Asp Asp Val Leu Phe
 20 25 30

Thr Ser Ala Cys Leu Met Leu Ser Pro Val Leu Gly Thr Asn Ala Ile
 35 40 45

Val Phe Leu Glu His Glu Ile His Gln Lys His Glu Trp Ile Trp Trp
 50 55 60

Gly His Lys Arg Leu Thr Pro Gly Ser Arg Asn Leu Gly Gly Glu Thr
 65 70 75 80

Ser Gly Leu Glu Gly Ala Glu Asp His Cys Val Arg Ser Thr Trp Phe
 85 90 95

Trp Leu Ala Gly Leu Ala Arg Met Gln Arg Ser Phe Trp Val Leu Leu
 100 105 110

Lys Phe Lys Thr Thr Ile Ile Ile Asn Ile His Leu Val Leu Thr Met
 115 120 125

Cys Gln Ser Leu Ile Ala Phe Tyr Val Phe Ser His Ser Ser Lys Phe
 130 135 140

Gly Leu Asp Ile Phe Pro Val Tyr Thr Ile His Met Arg Lys Arg Val
 145 150 155 160

00100US1.ST25

Glu Gln Gly Gly Ala Glu Thr Cys Pro Arg Ile His Ser Lys Asn Gly
 165 170 175
 Asn Trp Asp Trp Ser Pro Arg Asp Ser Cys Phe Leu Asp Phe Val Phe
 180 185 190
 Leu Ile Ser Leu Pro Leu Arg Leu Phe Ile Asp Ile Phe Thr Phe Tyr
 195 200 205
 Phe Glu Ile Ile Val Asp Ser Gln Glu Val Thr Arg Glu Arg Ser Cys
 210 215 220
 Val Leu Phe Thr Gln Ile Ser Pro Met Leu Arg Phe Tyr Ile Thr Val
 225 230 235 240
 Ile Gln Tyr Glu Asn Gln Glu Thr Asp Ile Gly Ser Ile Tyr Val Tyr
 245 250 255
 Thr Ser Met Pro Phe His His Val Met Pro Pro Ser Pro Ser Cys Arg
 260 265 270
 Thr Val Pro Ser Pro Arg Arg Ser Ala Thr Cys Cys Ser Phe Lys Val
 275 280 285
 Ile Pro Ala Leu Phe Pro Val Pro Thr His Cys His Tyr Ala Pro Leu
 290 295 300
 Val Thr Thr Asn Leu Phe Ser His Leu Tyr
 305 310
 <210> 226
 <211> 312
 <212> PRT
 <213> Homo sapiens
 <400> 226
 Gly Ala Arg Gly Gly Glu Ala Ser Thr Ser Leu Glu Ser Gln Val Glu
 1 5 10 15
 Asp Thr Ala Glu Gln Thr Ser Asn Leu Ile Thr Val Thr Leu Ile His
 20 25 30
 Pro Gln Leu Ala Lys Tyr Thr Leu Ile Val Asn Phe Leu Pro Leu Trp
 35 40 45
 Ser Leu Ser Asp Ile Ser Thr Asp Leu Leu Phe Ile Leu Leu Arg Leu
 50 55 60
 Arg Asn Ile Ile Arg Ile Leu Gln His Leu Gly Glu Ile Ile Glu Ser
 65 70 75 80
 Ala Met Val Ser Phe Ala Asp Ile Tyr Ser Trp Ser Lys Trp Asn Thr
 85 90 95
 Asn Gln Asn Trp Leu Pro Tyr Ile Leu Gln Arg Pro Thr Gly Gly Lys
 100 105 110
 Gly Leu Trp Lys Val Cys Phe Ala Thr Arg Gln Ile Leu Asp His Pro
 115 120 125
 Val Ser Gly Ser Ile His Ser Phe Pro Asp Ser Pro Asp Asp Ile Pro
 130 135 140

00100US1.ST25

Pro Ser Phe Thr Tyr Ile Asn Ser Thr Val Pro Ile Cys Tyr Ile Ala
145 150 155 160

Ser Phe Leu Leu Phe Ile Ile Cys Leu Pro His Gln Asn Ala Ser Ser
165 170 175

Ile Trp Ala Val Ala Thr Leu Phe Thr Val Tyr Leu Ser Val Ser Met
180 185 190

Lys Ser Asp Ile Met Pro Gly Ile Tyr Tyr Glu Leu Asn Asn Tyr Val
195 200 205

Asn Glu Ile Met Arg Lys Ser Cys Leu Ile Thr Cys Gln Pro Tyr Asn
210 215 220

Ala Ser Gln Phe Phe Pro Leu Gln Phe Leu His Leu Asn Trp Ile Thr
225 230 235 240

Gln Met Leu Thr Leu Trp His Cys Trp Asn Asn Tyr Leu Lys Ser Cys
245 250 255

Lys Phe Ile Ala Tyr Trp Lys Cys Gly Ser Glu Cys Asp Thr Pro Gln
260 265 270

Tyr Gly Val Leu Val Val Leu Thr Glu Gly Asn Lys Ser Phe Arg Asn
275 280 285

Lys Val Phe Leu Ala Phe Ser His Leu Ser Phe Ser Cys Ser Pro Phe
290 295 300

Phe Pro Lys Ala Asp Gln Arg Asn
305 310

<210> 227

<211> 321

<212> PRT

<213> Homo sapiens

<400> 227

Gly Cys Ser Pro Glu Asp Asp Leu Gly Cys Ser Gly Val Asn Tyr Pro
1 5 10 15

His Phe Leu Arg Ala Ser Met Trp His Ser Trp Pro Trp Ala Ser Ala
20 25 30

Cys Pro Ala Asn Ala Gln Pro Val Pro Ala Val Pro Pro Pro Leu Ala
35 40 45

Ala Gln Pro Gln Val Trp Pro Ser Gly Leu Tyr Pro Arg Pro Pro His
50 55 60

Leu Pro Thr Leu Phe Leu Cys Ser Glu Leu Ser Thr Ala Ala Pro Ala
65 70 75 80

Pro Trp Leu Pro Leu Ile Leu Cys Leu Val Ser Phe Phe Gly His Ser
85 90 95

Phe Ala Ala Thr Leu Tyr Trp Ile Thr Leu Leu Gly Val Leu Ile Ile
100 105 110

Ser His Pro Leu Leu Leu Pro Asn Gly Pro Ser Thr Ile Ser Phe His
115 120 125

Arg Leu Asn Gly Lys Gly Gly Val His Ile His Arg Ile Lys Gln Val

130

135

140

Met Pro Leu His Ser Gly Val Cys Asp Asp Asn Phe Tyr Ala Phe Tyr
 145 150 155 160

Thr Asn Ile Phe Val Ser Leu Cys Phe Leu Pro Cys Leu Arg Ala Leu
 165 170 175

Gln Gly Leu Ala Leu Gly His Pro Val Leu His Thr His Thr Arg Thr
 180 185 190

His Thr Arg Thr Cys Thr His Val His Thr His Ala His Thr His Thr
 195 200 205

His Thr His Lys His Thr His Ser Leu Ala Leu Ala Asn Ala Ser Leu
 210 215 220

Ala Leu Thr Thr Asn Val Ser Ala Ser Asp Leu His Asn Leu Ile Trp
 225 230 235 240

Leu Phe Leu Phe Leu Gly Val Ile Cys Leu Pro Glu Gly Arg Ala Asn
 245 250 255

Ser Pro Ala Ile Pro Ala Ala Tyr Ser Leu Pro Val Pro Ser Phe Pro
 260 265 270

Arg Arg Gln Gln Thr Glu Arg Gly Lys Arg Tyr Lys Glu Ala Trp Gly
 275 280 285

Trp Gly Lys Glu Ser Ser Tyr Leu Thr Ser Ala Pro Leu Thr Leu Leu
 290 295 300

Gly Glu Val Pro Thr His Ser Ser Gly Met Thr Thr Arg Met Val Ser
 305 310 315 320

Leu

<210> 228

<211> 123

<212> PRT

<213> Homo sapiens

<400> 228

Asp Cys Ala Ala Ala Leu Pro Gly Gln Ser Lys Thr Pro Phe Gln Lys
 1 5 10 15

Lys Lys Lys Lys Lys Lys Glu Arg Lys Glu Phe Met Asp Val Ile Val
 20 25 30

Lys Gly Leu Val Pro Ser Pro Ile Ser Cys Phe Pro Ser Cys His Val
 35 40 45

Thr Cys Trp Phe Pro Phe Thr Phe Cys His Asp Trp Lys Leu Pro Gly
 50 55 60

Ala Ser Pro Glu Ala Lys Gln Met Pro Gly Pro Cys Phe Leu Tyr Ser
 65 70 75 80

Leu Leu Asn Pro Glu Pro Asn Lys Pro Leu Phe Ile Thr Asn Tyr Leu
 85 90 95

Gly Ser Asp Ser Pro Leu Gln Cys Lys Trp Thr Asn Thr Pro His Asp
 100 105 110

Leu His Pro Gln Thr Thr Gly Gly Thr Gln His
115 120

<210> 229
<211> 210
<212> PRT
<213> Homo sapiens

<400> 229

Ser Ala Cys Gly Gly Phe Asn Gly Leu His Phe Tyr Ser Asn Ile Ser
1 5 10 15

His Gln Leu Tyr Ile Tyr Tyr Leu Lys Val Phe Leu Phe Ile Val Phe
20 25 30

Gln Phe Ile Phe Gln Ile Arg Ser Lys Gln Asn Tyr Ser Trp Arg Leu
35 40 45

Cys Cys Leu His Pro Gln Tyr Gln Met Phe Met Ala Ser Thr Glu Pro
50 55 60

Gly Val Ser Met Glu Ser Leu Arg Asp Cys Leu Ser Phe Ser Glu Glu
65 70 75 80

Ser Val Met Phe Ser Ile Pro Glu Glu Ala Glu Ile Thr Leu His Tyr
85 90 95

Phe Phe Glu Leu Cys Ala Gly Arg His Gly Ser Glu Ile Cys Leu Ser
100 105 110

Asp Ser Asn Ser Ser Ser Ile Cys Val Leu Val Phe Val Val Ala Phe
115 120 125

Cys Ile Gln Leu Pro Asp Asn Phe Phe Leu Met Phe Cys Cys Asn Leu
130 135 140

Val Lys Leu Leu Phe Tyr Lys Leu Met Phe Trp Tyr Phe Gly His Gln
145 150 155 160

Ile Leu Ala Arg Gly Lys Ile Arg Thr Arg Ser Thr Ser Cys Lys Thr
165 170 175

Lys Leu Ile Phe Leu Val Asp Phe Trp Asn Gly Leu Phe Cys Phe Pro
180 185 190

Ile Cys Val Tyr Phe Leu Lys Ser Cys Arg Cys Ile Tyr Glu Tyr Leu
195 200 205

Phe His
210

<210> 230
<211> 204
<212> PRT
<213> Homo sapiens

<400> 230

Val Ile Asn Ser Ser Cys Pro Ser Ile Ile Gly Leu Gly Thr Pro Gly
1 5 10 15

Phe Ser Cys Ser Ser Ser Val Ile Gly Arg Lys Ile Gly His Trp Leu
20 25 30

Lys Gln Ile Leu Ser Phe Leu Gly Val Val Phe Thr Leu Lys Ala Leu
35 40 45

Arg Pro Leu Gly Gly Ser Ala Ile Leu Gln His Gly Arg Cys Pro His
50 55 60

Thr Trp Met Ala Ala Phe Tyr Tyr Tyr Ser Leu Asp Thr Gly Phe Phe
65 70 75 80

Ala His Val Tyr Thr Leu Gly Ser Ile Cys Tyr Pro Phe Phe Thr Leu
85 90 95

Lys Gln Val Ile Gly Lys Phe Ile Ser Ile Trp Lys Thr Asn Asp Gln
100 105 110

Lys Asn Pro Ser Asn Pro Lys Phe Thr Glu Ala Arg Leu Leu Lys Arg
115 120 125

Lys Asp Ile Phe Leu Cys Arg Lys Val Met Phe His Arg Gly Phe Cys
130 135 140

Asn Ala Leu Thr Leu Asp Arg Ser Pro Pro Ser Ile Leu Gly Ile Thr
145 150 155 160

Ser Phe His Phe Ser Cys Lys His Ser Ser Pro Cys Thr Leu Gln Asp
165 170 175

Phe Ser Leu Phe Glu Ile Gly Leu His Ser Val Gly Arg Gly Asp Trp
180 185 190

Phe Gln Lys Glu Gly Ala Ala Gly Arg Asp Phe Ala
195 200

<210> 231

<211> 186

<212> PRT

<213> Homo sapiens

<400> 231

Gln Gly Arg Cys Thr Pro Pro Val Ile Leu Gly Val Ile Ser Ser Pro
1 5 10 15

Pro Leu Asp Ile Arg Asn Asn Ile Thr Ala Gly Val Gly Val Val Tyr
20 25 30

Ser Leu Cys Asn Ile Gly Ser Asn Ile Ile Leu Ser Pro His Trp Ile
35 40 45

Leu Gly Thr Ile Ser Gln Glu Val Trp Thr Pro Pro Ala Ile Leu Gly
50 55 60

Val Thr Ser Phe Ser Phe Pro Ser Gly Tyr Glu Gln Tyr Cys Ile Gly
65 70 75 80

Val Tyr Thr Pro Ser Asp Ile Arg Ser Asn Ile Ile Leu Ser His Ser
85 90 95

Gly Tyr Glu Gln Tyr Leu Arg Arg Ser Val Glu Pro Leu Arg Tyr Glu
100 105 110

Tyr His Pro Leu Pro Pro Trp Ile Leu Gly Thr Ile Thr Gln Gly Glu
115 120 125

00100US1.ST25

Tyr Thr Ala Pro Val Ile Leu Arg Val Ile Ser Ser Pro His Leu Asn
130 135 140

Ile Arg Asn Asn Ile Arg Gly Val Gly Tyr Thr Ile Cys Asp Ser Gly
145 150 155 160

Arg Asn Ile Ile Leu Ser Pro Pro Gly Tyr Glu Gln Tyr His Lys Trp
165 170 175

Ser Ile His Pro Leu Arg Tyr Trp Glu Tyr
180 185

<210> 232
<211> 157
<212> PRT
<213> Homo sapiens

<400> 232

Asp Asn Leu Cys Ser Pro Cys Ser Ser Thr Pro His Ile Pro Ile Val
1 5 10 15

Cys Pro Phe His Ser Ala Pro Phe Ser Val Gln Thr Glu Leu Phe Thr
20 25 30

Asn His Tyr Pro Leu Leu Glu Met Glu Gly Ala Pro Phe Pro Thr Pro
35 40 45

Pro Leu Pro Pro Gln Leu Ser Ser Pro Arg Arg Leu Ser Ile Asn Arg
50 55 60

Leu Thr Ile Ser Leu Asn Phe His Ile Phe Val Trp Leu Ser Tyr Leu
65 70 75 80

Phe Thr Phe Ile Asn Leu Leu Cys Phe Ser Leu Val Asn Gln Ser Phe
85 90 95

Phe Ile Gly Val Ser Ala Val Ser Leu Tyr Asp Gly Glu Glu Lys Asn
100 105 110

His Pro Leu Ser Thr Pro Thr Ser Asp Arg Ser Gln Asp Ile Pro Leu
115 120 125

Lys Phe Gly Lys Val Asn Thr Ser Thr Pro Cys Ile Leu Pro Asp Asn
130 135 140

Thr Lys Asn Phe Ile Gln Tyr Ile Tyr Tyr Met Ile Lys
145 150 155

<210> 233
<211> 178
<212> PRT
<213> Homo sapiens

<400> 233

Arg Ser Arg Lys Val Asn Trp Pro Lys Val Gly Ile Tyr Ile Pro Val
1 5 10 15

Leu Leu Leu Glu Cys Cys Leu Phe Leu Asn His Pro Trp Ser Arg Pro
20 25 30

Thr Pro Ser Cys Thr Tyr Thr Asn Pro Ile Leu Ser Gln Thr Gly Leu
35 40 45

00100US1.ST25

Trp Leu Asp Ile Gly Glu Lys Gln Leu Asp Gly Leu Thr Pro Lys Lys
50 55 60

Asn Pro Ala Arg Asp Gly Gln Asn Phe Arg Gly Gly Leu Arg Tyr Arg
65 70 75 80

Pro Cys Leu Leu Leu Ser Ser Pro Ser Cys Arg Glu Pro Arg Phe Ile
85 90 95

His Asn Lys Ile Pro His Ile His His Pro Ser Ile Tyr Ser Cys Asn
100 105 110

Leu Ile Phe Pro Gly Trp Trp Thr Arg Ala Arg Glu Pro Gln Val Glu
115 120 125

Ile Gln Lys Ala Val Thr Leu Ala Leu Cys Pro Cys Trp Arg Arg Ala
130 135 140

Ala Ala Ser His Arg Gly Arg Gly Pro Thr Glu Leu Leu Thr Leu Lys
145 150 155 160

Pro Ser Ala Asp Gly Arg Ala Lys Thr Ala Leu Glu His Ala Leu Trp
165 170 175

Gly Phe

<210> 234
<211> 188
<212> PRT
<213> Homo sapiens

<400> 234

Ile Glu Thr Lys Leu Asn Thr Phe Ala Lys Leu Leu Arg Ser Lys Phe
1 5 10 15

Leu Val Pro Arg Leu Glu Leu Pro Asn Ala Asp Lys Ser Ser Pro Val
20 25 30

Gly Ser Pro Thr Leu Phe Lys Gln Phe Leu Asp Phe Ala Pro Val Glu
35 40 45

Ala Asp Met Leu Asn His Lys Thr Pro Leu Leu Leu Ala Leu Ala Tyr
50 55 60

Cys Phe Gly Arg Ser His Phe Ser Lys Ile Arg Ala Ser Leu Ile Asn
65 70 75 80

Thr Gly Ile Arg Phe Leu Ser Gly Val Gly Ile Pro Glu Asp Arg Ile
85 90 95

Ile Tyr Phe Ala Leu Ser Arg Cys Val Met Arg Thr Glu Ala Met Leu
100 105 110

Ile Arg Asp Pro Trp Glu Leu Val Ile Tyr Tyr Leu Leu Phe Leu Pro
115 120 125

Lys Ile Asp Leu Met Glu Arg Gly Cys Ile Ile Tyr Pro Leu Ser Lys
130 135 140

Glu Ala Phe Pro Asn Thr Thr Glu Ala Val Ile Leu Lys Thr Ala Leu
145 150 155 160

Trp Leu Cys Ser Gln Leu Tyr Phe Leu Pro Phe His Asn Phe Leu Pro

165

170

175

Ser Ala Met Glu Leu Met Gly His Thr His Ile His
180 185

<210> 235
<211> 165
<212> PRT
<213> Homo sapiens

<400> 235

Lys Lys Lys Thr Pro Met Ile Trp Ile Leu Leu Ser Phe Leu Phe Ser
1 5 10 15

Gln Met Val Ile Leu Lys Leu Ile Glu Val Val Tyr Arg Val His Ser
20 25 30

His Thr Val Arg Lys Arg Gln Ser Gln Gly Leu Asn Ser Ser Ser Leu
35 40 45

Thr Ile Glu Pro Ile Phe Leu Ile Thr Ile Gln Tyr Phe Thr Ile Cys
50 55 60

Ser Ile Lys Arg Asn His Phe Ser Glu Trp Arg Asn Ile His Glu Asn
65 70 75 80

Lys Ser Ile Ile Gln Asp Thr Cys Lys Ala Ser Arg His Ser Arg Phe
85 90 95

Arg Leu Leu Ala Pro Trp Pro Arg Leu Ile Thr Phe Gln Glu Asn Lys
100 105 110

Thr Thr Tyr Gln Asp His Thr Ser Arg Asn Asp Leu Arg Ile Met Gly
115 120 125

Thr Ala Ile Trp Val Ser Asn Gly Leu Glu Ser Asp Lys Trp Phe Leu
130 135 140

Asn Arg Phe Pro Glu Trp Gly Asn Leu Val Leu His Gln Ala Thr Tyr
145 150 155 160

Val Ile Phe Ile Leu
165

<210> 236
<211> 218
<212> PRT
<213> Homo sapiens

<400> 236

Ser Phe Leu Ser Phe Asn Arg Val Glu Lys Ile Ile Ile Ser Trp Glu
1 5 10 15

Pro Ser Phe Phe Tyr Tyr His Glu Cys Lys Cys Thr Ser Met Thr His
20 25 30

Leu Pro Leu Arg Ile Lys Leu Gln Tyr Lys Lys Tyr His Tyr Thr Tyr
35 40 45

Leu Ser Leu Ser Phe Asn Cys Leu Leu Glu Pro Ile Leu Phe Cys Leu
50 55 60

Pro Arg Thr Ser Thr Met Asp Tyr Pro Phe Thr Ile Ala Leu Ser Phe

[illegible]

<212> PRT

<213> Homo sapiens

<400> 238

Phe Gln Tyr Phe Val Thr Cys Arg Ser Lys Trp Trp His Ala Ser His
1 5 10 15

Leu Val Asn Ser Arg Ser Cys Cys Val Ser Asn Gly Asp Thr Leu Trp
20 25 30

Leu Leu Gln Met Val Thr Leu Pro Asn Cys Phe Pro Lys Arg His Val
35 40 45

Ala Phe Phe Ser Gln Ser Leu Ile Leu Thr Leu Met Val Ile Leu Leu
50 55 60

Tyr Phe Tyr Met His Leu Val Thr Cys Leu Ile Val Ile Phe Leu Glu
65 70 75 80

Ile Gln Phe Leu Leu His Arg Val Ser Phe Glu Ile Lys Glu Arg Glu
85 90 95

Val Ala Asn Leu Gly Cys Asn Asn Phe His Leu Lys Val Asp Pro Cys
100 105 110

Phe Tyr Tyr Pro Ile Ile Asn Val Phe Cys Phe Pro Leu Ser Ala Ser
115 120 125

Tyr Cys Ser Phe Asp Ser Tyr Cys Gln Thr Glu Leu Ser Cys Phe Leu
130 135 140

Ala Arg Lys Glu Thr Thr Met Asn Glu Pro Leu Asp Tyr Leu Ala Asn
145 150 155 160

Ala Ser Asp Phe Pro Asp Tyr Ala Ala Ala Phe Gly Asn Cys Thr Asp
165 170 175

Glu Asn Ile Pro Leu Lys Met His Tyr Leu Pro Val Ile Tyr Gly Ile
180 185 190

Ile Phe Leu Val Gly Phe Pro Gly Asn Ala Val Val Ile Ser Thr Tyr
195 200 205

Ile Phe Lys Met Arg
210

<210> 239

<211> 168

<212> PRT

<213> Homo sapiens

<400> 239

Trp Phe Thr Tyr Pro Leu Asn Lys Gln Leu Leu Arg Ile Pro Ala Pro
1 5 10 15

Ala Gln Arg Gln Tyr Trp Gly Leu Cys Leu Arg Met Trp Ala Leu Glu
20 25 30

Leu Cys Gly Trp Gly Ser Asn Ser Gly Arg Ala Ala Val Arg Pro Trp
35 40 45

Thr Ser Gly Ser Ser Lys Thr Asp Arg Gln Phe Ile Phe Ile Leu Val
50 55 60

Pro Gln Ile Val Val Leu Leu Ser Asn Tyr Leu Gly Phe Ile Pro Arg
65 70 75 80

His Trp Glu Ser Lys Leu Phe Ser Phe Ser Cys Leu Gln Lys Ser Ser
85 90 95

Leu Thr Ile His Val Ala Tyr His Trp Ile Gly Leu His Ile Lys His
100 105 110

Phe Val Thr Thr Phe Ala Cys Gly Tyr Ile Leu Leu Ser Phe Ser Tyr
115 120 125

Phe Leu Leu Ala Leu Leu Glu Tyr Ser His Lys Ser Leu Ser Ser His
130 135 140

Phe Trp Pro Pro Phe Asp Ser Phe Ser Leu Leu Cys Cys Cys Glu Ser
145 150 155 160

Phe His Val Gln Asp Ser Arg Trp
165

<210> 240
<211> 185
<212> PRT
<213> Homo sapiens
<400> 240

Ser Thr Met Cys Ile Phe Phe Trp Ala Lys Met Arg Gln Arg Cys His
1 5 10 15

Val Asn Phe Ser Phe Leu His Thr Thr Ile Val Ser His Lys Thr Lys
20 25 30

Asn Lys Arg Lys His Met Phe Thr Val Gly Arg Ile Ile Thr Arg Ser
35 40 45

Ser Val Ala Trp Pro Lys Glu Pro Leu Pro Thr Tyr Trp Gly Cys His
50 55 60

Met Lys Gly Phe Ser Lys Arg Leu Ala Ile Phe Ile Lys Gly Val Arg
65 70 75 80

His Gly Ser Gly Gln Gln Thr Ser Leu Trp Lys Gly Ser Lys Leu Leu
85 90 95

Gln Gln Asn Glu Arg Ile Met Val His Leu Pro Thr Leu Cys Asn Leu
100 105 110

Trp Met Lys Pro Gln Pro Arg Lys Val Lys Leu Leu Cys Val Cys Val
115 120 125

Trp Gly Cys Glu Gly Arg His Arg Lys Gly Lys Ala Asp Arg Pro Trp
130 135 140

Lys Thr Asp Ile Ser Pro Gly Glu Trp Asn Gly Gln Ser His Asn Thr
145 150 155 160

His Val Leu Asn Ile Thr Cys Phe Arg Lys Tyr Asn Ile Lys Thr Leu
165 170 175

Phe Lys Ser Tyr Ser Leu Met Ile Ser
180 185

<210> 241
 <211> 196
 <212> PRT
 <213> Homo sapiens

<400> 241

Val Leu Asp Ile Asp Val Arg Met Gly Gly Leu Ser Tyr Pro Ser Pro
 1 5 10 15
 His Val Phe Leu Leu Arg Asp Ser Asn Cys Asn Thr Ser Leu Val Phe
 20 25 30
 Phe Ala Ser Ser Leu Ile Pro Tyr Gln Gly Lys Ser Ser Glu Leu Ser
 35 40 45
 Asn Glu Ile Trp Lys Glu Lys Val Ser Lys Tyr Thr Gln His Tyr Ser
 50 55 60
 Thr Ser Phe Ser Leu Gly Leu Ala Ser Leu Gln Arg Glu Tyr Ile Leu
 65 70 75 80
 Leu Cys Ala Gly Ser Phe Pro Lys Leu Ile Ser Gly Phe Val Asn His
 85 90 95
 Gly Thr Ile Asp Ile Leu Asp Gln Ile Ile Leu Cys Cys Met Ala Cys
 100 105 110
 Ser Val Phe Cys Gln Ile Phe Gly Ile Ile Pro Gly Leu Asn Leu Pro
 115 120 125
 Asp Ala Asn Ser Thr Phe Ser Leu Lys Thr Ile Glu Ile Phe Gln Asp
 130 135 140
 Val Ala Lys Cys Pro Ser Gly Leu Lys Val Ala Pro Asn Ser Asn His
 145 150 155 160
 Cys Phe Glu Ala Cys His His Arg Glu Gly Cys Leu Arg Leu Asn Val
 165 170 175
 Cys Leu Arg Leu Ile Tyr Thr Pro Lys Ser Asn Ser Thr Val Thr Leu
 180 185 190
 Ile Ser Arg Lys
 195

<210> 242
 <211> 198
 <212> PRT
 <213> Homo sapiens

<400> 242

Phe Ala Leu Phe Pro Met Phe Ile Ile Ser Leu Asn Gly Thr Pro Ile
 1 5 10 15
 Cys Met Val Ala Trp Glu Ile Tyr Gly Ile Ile Leu Glu Pro Ser Phe
 20 25 30
 Phe Ile Ile Pro Met Ser Arg Ser Glu Ile Leu Ser Glu Tyr Ala Ser
 35 40 45
 Leu Ile Tyr Leu Lys Leu Ala His Phe Lys Phe Leu Ser Ile Leu Thr
 50 55 60

Leu Leu Tyr Leu Asn Asp Tyr His Ser Pro Asn Cys Phe Leu Met Gly
65 70 75 80

Leu Ile Gly Lys Thr Asn Leu Phe Leu Ile Leu Pro Leu Glu Leu Ser
85 90 95

Phe Gln Thr Arg Met Trp Pro Ser Phe Phe Leu Thr Asn Asp Leu Ile
100 105 110

Val Pro Lys Thr Lys Ser Ile Leu Ser Leu Asn Asn Ile Gln Gly Pro
115 120 125

His Ser Arg Ser Ser Leu Ile Pro Thr Ser Val Phe Leu Ser Ser Ser
130 135 140

Pro Ser Gln Ser Thr Leu Ser His Thr Arg Tyr Ser Thr Trp Ser His
145 150 155 160

Ile Lys Leu Leu Ser Ile Leu Gly Phe Leu Leu Ala Phe Asn Pro Leu
165 170 175

Leu Gly Trp Cys Ile Pro Gly Glu Trp Ser Asn Pro Cys Thr Cys Tyr
180 185 190

His Ala Pro Thr Phe Leu
195

<210> 243
<211> 180
<212> PRT
<213> Homo sapiens

<400> 243

Leu Cys Asp Gly Val Met Arg Trp Gly Arg Arg Val Trp His His Ala
1 5 10 15

Thr Gly Phe Pro Pro Lys Leu Ser Thr Pro Arg Ser Thr Ser Ala Ser
20 25 30

Gly Met Ser Ala Gly Ser Gln Arg Leu Trp Arg Arg Gly Ser Ser His
35 40 45

Ala Val Gln Thr Phe Asn Pro Leu Gln Ser Ser Leu Ala Arg Glu Gln
50 55 60

Gln Ser Leu Leu Glu Arg Asn Tyr His Ser Lys Gln Glu Phe Arg Pro
65 70 75 80

His Leu Ser Glu Asp His Val Glu Val His Leu Ala Gly Lys Val Ala
85 90 95

Ser Gly Cys Gly Leu Phe Asn Tyr Thr Leu Leu Phe Thr Leu Phe Thr
100 105 110

Ile Val Cys Lys Val Gln His Leu Gln Ala Arg Asn Thr Gly Leu Pro
115 120 125

His Ser Gly Trp Leu Gly Leu Met Lys Ala Ala Lys Gln Cys Ala Gln
130 135 140

Ser Lys Gln Arg Leu Pro Leu Ala Gly Ala His Ser Pro Arg Glu Gly
145 150 155 160

Ile Ser Phe Ser Leu Asp Leu Gly Ala Lys Ala Thr His Gly Ser Asp

165

170

175

Gln Thr Thr Cys
180

<210> 244
<211> 129
<212> PRT
<213> Homo sapiens

<400> 244

Val Glu Gln Leu Glu Thr His Gly Ser Val Leu Glu Trp Leu Val Trp
1 5 10 15

Asp His Phe Leu Gly Asp His Ser Ala Leu Thr Asp Gln Thr Gln Val
20 25 30

Asn Gly Thr Cys Pro Leu Pro Phe Pro Pro Gly Phe Gly Thr Val Ala
35 40 45

Thr Arg Val Val Phe Pro Ser Arg Gln Leu Leu Arg Val Ile Pro Glu
50 55 60

His Ser Leu Gly Ala Cys Ser Val Leu Thr Val Ile Ser Phe Ile Leu
65 70 75 80

Thr Ala Ile Pro Phe Cys Ile Phe Ser Gly His Pro Gln Asp His Pro
85 90 95

Gly Gln Pro Cys Leu Thr Pro Gly Leu Val Trp Leu His Asp Asn Lys
100 105 110

Asp Ala Gly Pro Glu Thr Ile Pro Leu His Gly Ala Cys Ile Phe Pro
115 120 125

Leu

<210> 245
<211> 181
<212> PRT
<213> Homo sapiens

<400> 245

Glu Ser Lys Met Leu Ile Gly Gly Ala Pro Pro Gln Cys Val Glu Asp
1 5 10 15

Leu Ala Ala Leu Asp Ala Tyr Ser Gln Ala Leu Gly Thr Arg Glu Ala
20 25 30

Pro Gly Leu Pro Phe Trp Ala Val Asp Leu Trp Gly Arg Ser Trp Pro
35 40 45

Leu Gly Trp Cys His Cys Ser Ser Tyr Pro Lys Cys Pro Phe Tyr Ala
50 55 60

Cys Ser Gly Leu Ala Ser Asn Thr Leu Lys Val Ser Ser Lys Gly Gln
65 70 75 80

Gly Arg Val Pro Cys Gly Lys Arg Trp Leu Phe Glu Ala Lys Ala Gln
85 90 95

Arg Arg His Ser Gln Arg Met Gly Arg Ala Ala Gly Gln Val Ser Ala

100

105

110

Ser Thr Trp Lys Thr Pro Ala Trp Leu Ala Ala Gly Glu Ile Val Leu
 115 120 125

Pro Arg Cys Gln Leu Leu Ser Arg Pro Leu Pro Arg Glu Pro Ser His
 130 135 140

Leu Ser Phe Ser Tyr Pro Ser Leu Arg Lys Ala Gln Ala Gln Gly Ala
 145 150 155 160

Met Val Pro Cys Ser Gln Thr Val Ile Ser Glu Trp Pro Leu Val Trp
 165 170 175

Gly Pro Arg Val Gln
 180

<210> 246

<211> 137

<212> PRT

<213> Homo sapiens

<400> 246

Gln Asn Thr Phe Tyr His Ile Asn Ser Cys Thr Met Ile Trp Leu Glu
 1 5 10 15

Glu Lys Asn Ser Trp Lys Val Lys Phe Val Leu Lys His Leu Phe Lys
 20 25 30

Ser Leu His Thr Phe Ile Cys Pro Asp Lys Thr Cys Leu Asn Phe Phe
 35 40 45

Leu Lys Gln Leu Tyr Cys Pro Ser Ile Cys Leu Thr Lys Phe Phe Lys
 50 55 60

Gly His Phe Gln Pro Phe Gln Arg His Lys Val Gly Val Pro Lys Pro
 65 70 75 80

Pro Phe Leu Ala Leu Pro Val Glu Asn Thr Met Leu His Ser Tyr Met
 85 90 95

Cys Pro Leu Thr Gln Thr Thr Leu Ile Leu Arg Arg Ser Leu Asp Leu
 100 105 110

Lys Leu Leu Leu Leu Ala Val Pro Ala Asn Ser Arg Val Lys Glu Asp
 115 120 125

Val Thr Arg His Thr Tyr Leu Pro Phe
 130 135

<210> 247

<211> 149

<212> PRT

<213> Homo sapiens

<400> 247

Ser Pro Met Leu Gln Phe Tyr Arg Leu Gly Lys Leu Arg Ala Gly Val
 1 5 10 15

Thr Cys Tyr Ser Ser Tyr Pro Gln Thr Tyr Lys Thr Lys Ser Phe Thr
 20 25 30

Glu Val Lys Tyr Asn Leu Phe Gly Leu Leu Phe His Phe Thr Ile Leu

35

40

45

Ser Leu Leu Val Phe Ile Thr Ile His Ser Lys Glu Phe Ile His Val
50 55 60

Asp Thr Ser Glu Val Phe Leu Ile Ser Pro Val Arg Pro Val Val Lys
65 70 75 80

Leu Leu Trp His Tyr Ser Thr Phe Ser Leu Ser Val Phe Phe Pro Ser
85 90 95

Pro His Arg Ser Glu Leu Ile Ser Pro His Pro Gly Pro Ser Glu Ser
100 105 110

Phe Val Lys Ser Leu Leu Ser Asn Leu Ser Val Glu Arg Val Pro Leu
115 120 125

Cys Leu Ser Glu Ile His Thr Val Met Cys His Leu Thr Met Phe Gln
130 135 140

Ser Val Arg Asp His
145

<210> 248
<211> 145
<212> PRT
<213> Homo sapiens

<400> 248

Pro Ile Pro Pro Ser Glu Gly Leu Glu Lys Ala Phe Thr Phe Met Ser
1 5 10 15

Pro Gly Ile Arg Ser Pro Gln Thr Arg Asn Phe Phe Leu Ile Met Glu
20 25 30

Val Trp Gln Trp Ala Thr Lys Pro Lys Val Ser Val Leu Leu Ser Asp
35 40 45

Ile Ala Ser Leu Arg Asn Arg Gln Pro Gly Arg Asp Gly Met Ser Leu
50 55 60

Ile Lys Cys Ser Ala Glu Val Ser Ser Arg Gly Leu Trp Cys Cys Pro
65 70 75 80

Ser Gly Cys Asn Ile Cys Thr Lys Pro Val Thr Glu Tyr Tyr Thr Glu
85 90 95

Ser Val Val Pro Lys Ile His Gly Phe Leu Tyr Gln Gly Leu Asp Ile
100 105 110

Glu Ser Ala Leu Val Thr Ile Lys Trp Leu Arg Asn Phe Tyr Phe Ile
115 120 125

Cys Pro Gln Leu Arg Trp Ile Arg Ser Val Cys Ile Leu Ala Ser Val
130 135 140

Cys
145

<210> 249
<211> 146
<212> PRT
<213> Homo sapiens

<400> 249

Leu Thr Ser Val Ser Ser Val Lys Pro Lys Leu Ser Lys Cys Glu Ile
 1 5 10 15
 Met Lys Cys Val Lys Leu Leu Ile Gln Cys Leu Arg Gln Gln Asn Ser
 20 25 30
 Arg Leu Ile Ile Gln Ser Ile Gln Thr Thr Phe Tyr Gly Asp Asn Leu
 35 40 45
 Trp Ser Glu Arg Leu His Lys Cys Ser Phe His Ser Tyr Ser Ser Ser
 50 55 60
 Asn Thr Lys Leu Leu Ser Ile Pro Glu Leu Lys Met Thr Leu Leu Thr
 65 70 75 80
 Asp Leu Tyr Leu Phe Ile Cys His Phe Ser Arg Arg Thr Ala Ile Leu
 85 90 95
 Pro Gln Ser Pro Tyr Ala Phe Val Glu Ser Trp Leu Lys Pro Gln Ala
 100 105 110
 Leu Cys Lys Ala Phe Leu Gly Ile Asp Ile Thr Thr Ile Pro Gln Asn
 115 120 125
 Leu Leu Val Leu His Ala Ile Ser Gly Pro Trp Thr His Phe Tyr Cys
 130 135 140
 Asn Lys
 145

<210> 250

<211> 84

<212> PRT

<213> Homo sapiens

<400> 250

Phe Thr Gln Glu Ser Ser Arg Pro Ser Thr Phe Gly Ala Asn Leu Glu
 1 5 10 15
 Leu Gly Cys Arg Pro Ala Gly Thr Phe Ile Lys Cys Tyr Tyr Phe Ile
 20 25 30
 Phe Ala Ser Glu Glu Leu Pro Asp Phe Val Lys Thr Leu Cys Asn Pro
 35 40 45
 Ser Pro Phe Phe Trp His Ser Arg Gln Leu Asn Lys His Leu Leu Thr
 50 55 60
 Pro Leu Leu Cys Val Ile Arg Cys Glu Arg His Trp Arg Tyr Glu Glu
 65 70 75 80
 Pro Met Val Ser

<210> 251

<211> 62

<212> PRT

<213> Homo sapiens

<400> 251

Ala Pro Trp Gly Trp Ala Ser Val Ser Val Cys Ala Arg Leu Glu Met

1 5 10 15
 Ala Ser Arg Tyr Gly Leu Gln Glu His His Glu Val His Leu Ile Phe
 20 25 30
 Ala Phe Leu Cys Gln His Val Cys His Leu Gln Cys Leu Thr Glu His
 35 40 45
 Val Gly Pro Ala Met Trp Ala Val Ser Leu Pro Ser Ser Tyr
 50 55 60

<210> 252
 <211> 117
 <212> PRT
 <213> Homo sapiens

<400> 252

Lys Lys Glu Pro Thr Met Ile Trp Ile Leu Leu Ser Phe Leu Phe Ser
 1 5 10 15
 Gln Met Val Ile Leu Lys Leu Ile Glu Val Val Tyr Arg Val His Ser
 20 25 30
 His Thr Val Arg Lys Arg Gln Ser Gln Gly Leu Asn Ser Ser Ser Leu
 35 40 45
 Thr Ile Glu Pro Ile Phe Leu Ile Thr Ile Gln Tyr Phe Pro Ile Cys
 50 55 60
 Ser Ile Lys Arg Asn His Phe Ser Glu Trp Arg Asn Ile His Glu Asn
 65 70 75 80
 Lys Ser Ile Ile Gln Asp Thr Cys Lys Ala Ser Arg His Ser Arg Phe
 85 90 95
 Arg Leu Leu Ala Pro Trp Pro Arg Leu Ile Thr Phe Gln Glu Asn Lys
 100 105 110
 Thr Thr Tyr Gln Asp
 115

<210> 253
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 253

Thr Phe Ile Lys His Phe Phe Ser Gly Leu Ser Phe Ser Pro Ser Cys
 1 5 10 15
 His Val Ala Ile Ile Ile Phe Thr Ser Ala Ser Ala Tyr Phe Lys Pro
 20 25 30
 His Asn Lys Leu Leu Ala Phe Phe Phe Ala Ile Asp Asn Asn Leu Lys
 35 40 45
 Met Thr Gln Asn Phe Asn Gly Phe Ile Tyr Pro Gln Phe Tyr Asp Phe
 50 55 60
 Arg Ser Ser Phe Leu Cys Val Asp Leu Leu Ile Tyr His Phe Leu Ser
 65 70 75 80
 Thr Ile Thr Ser Phe Asn Leu Ser Cys Ser Thr Gly Leu Leu Thr Ile

85

90

95

Asn Phe Phe Ser Phe Ser Leu Ser Lys Asn His Leu Phe Ser Leu His
 100 105 110

Phe Cys Lys Ile Phe Ser Arg Val Ile Lys Phe Val Thr Ile Phe Phe
 115 120 125

Glu Tyr Phe Lys Asp Leu
 130

<210> 254
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 254

Thr Phe Leu Ser Arg His Phe Leu Met Trp Lys Arg Phe Thr Glu Ser
 1 5 10 15

Asp Thr Phe Lys Gly Leu Thr Arg Asp Ile Cys Cys Leu Cys Leu Leu
 20 25 30

Phe Ser Trp Arg Ser Ala Thr Asn Lys Ala Ser Ser Thr Gln Gly His
 35 40 45

Leu Ser Thr Gly Leu Phe Leu Ser Ser Ser His Asn Leu Ser Cys His
 50 55 60

Thr Ile Thr Ser Thr Thr Ser Leu Gly Pro Cys Ser Glu Pro Thr Phe
 65 70 75 80

Phe Leu Pro Gln Val Gly Ile Ala Ser Ala Pro Tyr Cys Leu His Ser
 85 90 95

Glu Gly Ser Tyr Val His Ala Leu Asn Lys Phe Val Ser Pro Ile Asn
 100 105 110

Val Pro Phe Ala Ser Phe Phe Ser Glu Thr Ser Glu Val Gln Arg Gln
 115 120 125

Pro Leu Pro Ser Ser Arg Cys Ser Thr Tyr
 130 135

<210> 255
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 255

Cys Lys Thr Gly Gly Leu Lys Leu Ile Phe Arg His His Gly Ile Leu
 1 5 10 15

Tyr Arg Leu Ser Leu Tyr Leu Glu Asp Val Arg Leu Met Glu Val Leu
 20 25 30

Ser Ile Leu Phe Pro Leu Leu Ile His Ser Phe Leu Phe Thr Glu Arg
 35 40 45

Leu Asn Phe Leu Ser His Ile Ser Val Leu Leu Ala Pro Leu Phe Phe
 50 55 60

Pro Leu Leu Gln Lys Ser Gln Pro Gln Lys Gln Ser Thr Tyr Cys Glu

65 70 75 80
 Lys Asp Phe Ser Asn His Lys Gly Asp Val Thr Leu Gly Leu Cys Phe
 85 90 95
 Leu Ser His Thr His Lys Ile Leu Asp Met Ser Glu Ile Leu Lys Asn
 100 105 110
 Trp Phe Leu Asn Val Met Lys Arg Val Ser Phe Ser Pro Glu Gln Asn
 115 120 125
 Asn Pro Cys Ser Leu Leu Pro Asp Met Gly Gly Phe Gln Ile Arg Asn
 130 135 140
 Leu Cys Ile Gly Pro Gln Ala Pro Asp Lys Val
 145 150 155

 <210> 256
 <211> 185
 <212> PRT
 <213> Homo sapiens

 <400> 256
 Gly His Arg Pro Ser Phe His Phe Cys Lys Pro Arg Gly Ile Leu Thr
 1 5 10 15
 Asp Ser Thr Thr Tyr Pro Leu Leu Val Leu Ile Glu Glu Asp Thr Gly
 20 25 30
 Leu Lys Pro His Phe Phe Arg Ala Phe Val Cys Ile Ser Lys Ile Leu
 35 40 45
 Phe Tyr Arg His Leu Pro Phe Ser Phe Ile Phe Phe Leu Ser His Asn
 50 55 60
 Asn Ser Ala Phe Leu Leu Tyr Glu Cys Thr Ser Asp Leu Thr Gln Arg
 65 70 75 80
 Ile Gly Gly Gln Thr Asp Cys Leu Leu Ser Val Ser Cys Ala Leu Leu
 85 90 95
 Arg Arg Leu His Leu Ser Ala Asn Ser Ser Cys Thr Thr Phe Ser Asp
 100 105 110
 Phe Cys Cys Val Phe Ser Asp His Leu Leu Gly Ser Gly His Pro Leu
 115 120 125
 Asp Gly Ser Gly Leu Ser Val Ser Val Phe Gly Asn Trp Ser Asp Leu
 130 135 140
 Ala Leu Leu Met Gln Leu Lys Leu Arg Pro Leu Ser Leu Ser Gln Ala
 145 150 155 160
 His Ser Gly Cys Val Arg Phe Leu Leu Ser Leu Val Cys Ile His Pro
 165 170 175
 Leu His Val Gln Val Gly Ala Ala Lys
 180 185

 <210> 257
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 257

His Phe Leu Pro His Ile Leu Glu Leu Val Leu Phe Leu Ile Lys Ile
 1 5 10 15
 Asn Val Ile Phe Arg Gly Ala Ile Phe Cys Phe Gln Asp Phe Phe Lys
 20 25 30
 Glu Val Ile Leu Lys Ala Lys Phe Lys Glu Lys Glu Leu Val Ala Leu
 35 40 45
 Val Asp Pro Val Gly Ser Ser Phe Leu Cys Trp Ser Ile Phe Cys Ile
 50 55 60
 Pro Phe Glu Phe Ala Phe Leu Phe Asn Ile Phe Trp Tyr Ser Arg Phe
 65 70 75 80
 Leu Phe Phe Gly Thr Phe Val His Ile Asn Phe Leu Val Trp Arg Arg
 85 90 95
 Gly Ile Leu Ile Ala Asn Gly Thr Lys Val Tyr Arg Asp Ile Val Gln
 100 105 110
 Pro Leu Leu Phe Phe Leu Phe Leu His Ser Ile Leu Val Met Gly Asn
 115 120 125

<210> 258

<211> 168

<212> PRT

<213> Homo sapiens

<400> 258

Lys Gln Ser Tyr Ile Cys Ile Leu Phe Tyr Ile Tyr Phe Val Ile Phe
 1 5 10 15
 Leu Leu Ser Thr Val Ser Ser Leu Leu Pro Phe Leu Ile Glu Glu Phe
 20 25 30
 Asn Ala Cys Ile Cys Val Phe Ala Lys Lys Thr Pro Ser Ile Thr Cys
 35 40 45
 Ser Ile Tyr Glu Tyr Phe Trp Pro Leu Thr Gln Lys Val Leu Tyr Tyr
 50 55 60
 Arg Gln Lys Ser Thr Arg Lys Gln Ser Gly Thr Ser Ser Lys Arg Asp
 65 70 75 80
 Ser Ile Val Gly Lys Asn Thr Asp Pro Gly Gly Lys Leu Pro Gly Leu
 85 90 95
 Glu Ser Gln Leu Tyr Tyr Phe Gly Lys Thr Thr Tyr Leu Leu Tyr Leu
 100 105 110
 Phe Trp Tyr Pro Cys Leu Asn Gly Ser Asn Asn Asn Pro Leu Ile Ala
 115 120 125
 Leu Leu Gly Phe Asn Arg Ser Glu Asp Phe Arg Arg Ala His Asp Lys
 130 135 140
 Asn Tyr Ile Arg Val Thr Tyr Tyr Cys Tyr Pro Ile Cys His Ser Lys
 145 150 155 160
 Leu Arg Asp Leu Gly Gln Val Thr
 165

<210> 259
 <211> 182
 <212> PRT
 <213> Homo sapiens

<400> 259

Leu Val Glu Trp Ala His Ser Ser Met Arg Pro Ile Phe His Leu Asn
 1 5 10 15

Phe Leu Cys Leu Arg Asn Glu Leu Tyr Ser Asn Leu Cys Phe Leu Lys
 20 25 30

Ile Asn Val Phe Leu Val Lys His Leu Val Ser Ser Gln Ile Leu Phe
 35 40 45

Lys Lys Thr Thr Glu Asn Ser Glu Glu Gly Glu Thr Asp Ser Ala Asn
 50 55 60

Ser Ile Ser Val Pro Arg Leu Asn Trp Glu Met Leu Leu Leu His Asp
 65 70 75 80

Leu Gly Leu Ile Ile Cys Leu Gln Glu His Cys Phe Arg Val Val Trp
 85 90 95

Tyr Ser Gly Arg Asn Gly Leu Trp Ser Glu Ile His Val Gln Ile Pro
 100 105 110

Ser His Leu Pro Ser Leu Ile Leu Ser Phe Leu Ile Cys Lys Met Thr
 115 120 125

Ile Ile Asn Thr Ile Ser Lys Ile Cys Gly Asp Asn Thr Ala Phe Thr
 130 135 140

Ser Cys Cys Ile Leu Pro Ile Ser Ser Cys Arg Asp Arg Ile Phe His
 145 150 155 160

Phe Ile Leu Ile Tyr Asn Tyr Val Ile Pro Phe Lys Asn His Pro Ser
 165 170 175

Thr Phe Ser Ser Thr Arg
 180

<210> 260
 <211> 207
 <212> PRT
 <213> Homo sapiens

<400> 260

Cys Ser Leu Leu Asp Phe Leu Met Leu Val Gly Ala Leu Arg Lys Leu
 1 5 10 15

Cys Thr Lys Leu Asp Pro Val Leu Gln Gly Ser Asp Leu Thr Glu His
 20 25 30

Ser Ala Trp Gly Val Pro Leu Ile Trp Thr Trp Asn Ser Ile Ile Gln
 35 40 45

Arg Pro Ser Leu Pro Cys Ser Leu Cys Val Thr Gly Ala Ala Glu Thr
 50 55 60

Gln Val Leu Ser Ala Ser Ala Gly Leu Gln Pro Cys Leu Cys Leu Leu
 65 70 75 80

Arg Ser Asp Ser Asn Cys Tyr Leu Trp Arg Trp Leu Phe Ile Gly Thr
 85 90 95
 Pro Phe Leu Cys Leu Thr Glu Ala Gln Cys Ser Lys Leu Glu Gly Leu
 100 105 110
 Cys Gln His Val Ser His Thr His Leu Leu Leu Phe Phe Ser Arg Val
 115 120 125
 Leu Gly His Leu Leu Leu His Ile Thr Thr Ser Ser Pro Pro Ala Gln
 130 135 140
 Leu Ala Leu Ser Pro Phe Pro Ile Tyr His Ala Val Leu Glu His Lys
 145 150 155 160
 Ala Leu Leu Cys Ile Pro Cys Val Tyr Phe Val Val Met Cys Cys Ile
 165 170 175
 Leu Lys Glu Leu Asn Leu Cys Pro Gly Ser Arg Lys Asn Ala Asp Gln
 180 185 190
 Leu Leu Ala Ile Asp Gly Phe Asn Ile Ser Tyr Asp Trp Phe Leu
 195 200 205
 <210> 261
 <211> 187
 <212> PRT
 <213> Homo sapiens
 <400> 261
 Gln Thr Lys Glu Glu Lys Gly Gln Val Lys His Thr Ile Gly Phe Thr
 1 5 10 15
 Val Asn Met Ser Lys Val Leu Leu Ile Ile His Phe Met Tyr Pro Arg
 20 25 30
 Leu Trp Lys Lys Phe Phe Phe His Leu Pro Ile Lys Asn Ile His Leu
 35 40 45
 Gly Ile Thr Thr Ser Trp Ile Leu Leu Asp Arg His Thr Thr Thr Leu
 50 55 60
 Thr Val Leu Pro Ser Ser Arg Arg Leu Ala Arg Lys Ala His His Pro
 65 70 75 80
 Leu Pro Gly Ser Lys Val Asp Ser Leu Ile Phe Cys Ile Asn Pro Thr
 85 90 95
 Pro Asp Ser Phe Ser Tyr Ser Leu Leu Pro Cys Leu Phe Ser Tyr Leu
 100 105 110
 Met Val Asn Val Phe Leu Ser Ser Cys Ile Thr Phe Tyr Ser Phe Leu
 115 120 125
 Glu His Ile Ile Ile Ile Asn Lys Lys Ser Lys Ile Ala Met Val Ala
 130 135 140
 Arg Ile Pro Ala Pro Leu Asp Pro Ser Thr Ser Ser Ser Pro Gly His
 145 150 155 160
 Thr Trp Gln Arg Glu Ile Lys Val Leu Asp Gly Ile Lys Val Asn Gln
 165 170 175

Leu Thr Leu Lys Gly Glu Lys Glu Ser Arg Leu
 180 185

<210> 262
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 262

Tyr Val Thr Ile Leu Leu Thr Val Leu Val Phe Leu Leu Arg Ser Leu
 1 5 10 15

Pro Phe Gly Ile Arg Trp Ala Leu Ser Thr Gly Ile His Leu Asp Leu
 20 25 30

Glu Val Ile Phe Cys His Val His Leu Val Ser Ile Phe Leu Ser Pro
 35 40 45

Leu Asn Gly Ser Ala Asn Pro Val Ile Tyr Phe Phe Val Gly Ser Phe
 50 55 60

Arg Gln Arg Gln Asn Arg Gln Asn Leu Lys Leu Val Leu Gln Arg Ala
 65 70 75 80

Leu Gln Asp Met Pro Glu Val Lys Val Glu Gly Gly Phe Leu Arg Glu
 85 90 95

Pro Trp Ser Cys Arg Glu Ala Asp Ser Gly Ser Glu Glu Glu Pro Leu
 100 105 110

Pro Cys Gln Ser Asp Gly Thr Leu Arg Ala Ile Leu Pro Cys His Ala
 115 120 125

Gln Leu His Ala Phe Ser Cys Cys Ala Ser Glu Met Ser Gln Arg Leu
 130 135 140

Lys Val Val Glu Met
 145

<210> 263
 <211> 207
 <212> PRT
 <213> Homo sapiens

<400> 263

His Trp Arg Ser Leu Val Thr Trp Ala Glu Tyr Leu Glu Pro Arg Ile
 1 5 10 15

Ser Ser Ser Met Val Asp Gln Leu Cys Asp Gly Val Met Arg Trp Gly
 20 25 30

Arg Arg Val Trp His His Ala Thr Gly Phe Pro Pro Lys Leu Ser Thr
 35 40 45

Pro Arg Ser Thr Ser Ala Ser Gly Met Ser Ala Gly Ser Gln Arg Leu
 50 55 60

Trp Arg Arg Gly Ser Ser His Ala Val Gln Ser Phe Asn Pro Leu Gln
 65 70 75 80

Ser Ser Leu Ala Arg Glu Gln Gln Ser Leu Leu Glu Arg Asn Tyr His
 85 90 95

Ser Lys Gln Glu Phe Arg Pro His Leu Ser Glu Asp His Val Glu Val
100 105 110

His Leu Ala Gly Lys Val Ala Ser Gly Cys Gly Leu Phe Asn Tyr Thr
115 120 125

Leu Leu Phe Thr Leu Phe Thr Ile Val Cys Lys Val Gln His Leu Gln
130 135 140

Ala Arg Asn Thr Gly Leu Pro His Ser Gly Trp Leu Gly Leu Met Lys
145 150 155 160

Ala Thr Lys Gln Cys Ala Gln Ser Lys Gln Arg Leu Pro Leu Ala Gly
165 170 175

Ala His Ser Pro Arg Glu Gly Ile Ser Phe Ser Leu Asp Leu Gly Ala
180 185 190

Lys Ala Thr His Gly Ser Asp Gln Thr Thr Cys Ser Pro His Leu
195 200 205

<210> 264

<211> 204

<212> PRT

<213> Homo sapiens

<400> 264

Gly Ala Ser Ser Gln Tyr Gly Asn Glu Asp Gly Val Asn Leu Phe Pro
1 5 10 15

Leu Met Ser Pro Pro Leu Tyr Thr Asn Leu Leu Lys Pro Thr Gly Lys
20 25 30

Leu Arg Leu Gly Asn Lys Asn Ile Lys Cys Tyr Val Gln Ile Leu Lys
35 40 45

Trp Asn Leu Lys Leu Leu Val Leu Gln Leu Phe Leu Lys Ile Pro Thr
50 55 60

Leu Ser Arg Ser Met Ser Phe Arg Glu Arg Thr Tyr Val Ala Arg Glu
65 70 75 80

Lys Ser Lys Glu Ser Met Asn Pro Val Leu Leu Ser Ile Leu Gln Cys
85 90 95

Trp Arg Pro Phe Ser Ile Phe His Ser Leu Gly Gln Ser Phe Asn Thr
100 105 110

His Leu Leu Lys Ala Ile Tyr Ile Arg Pro Cys Tyr Ser Lys Gly Thr
115 120 125

Val Gly Gly Glu Glu Arg Gln Asp Pro Thr Met Glu Leu Lys Ser Ser
130 135 140

Leu Asp Arg Phe Pro Phe Pro Ser Gly Gln Ser Lys Pro Asn Asp Thr
145 150 155 160

Thr Val Ser Ser Phe Pro Glu Gln Arg Asp Val Glu Asn Tyr Leu Phe
165 170 175

Thr Ile Val Arg Arg Arg Gln Gly Trp Asn Phe Phe Gln Asn Lys Leu
180 185 190

Phe Phe Phe Val Lys Gln Gly Lys Ile Leu Leu Leu

195

200

<210> 265
 <211> 186
 <212> PRT
 <213> Homo sapiens

<400> 265

Ile Ser Val Thr Asp Leu Ile Gly Gly Lys Trp Ile Phe Gly His Phe
 1 5 10 15

Phe Cys Asn Val Phe Ser Val Asn Val Met Cys Cys Thr Ala Trp Ile
 20 25 30

Leu Thr Leu Tyr Val Ile Ser Ile Asp Arg Tyr Leu Gly Ile Met Lys
 35 40 45

Pro Leu Thr Tyr Pro Met Arg Gln Lys Gly Lys Cys Met Thr Lys Met
 50 55 60

Ile Leu Ser Val Cys Leu Leu Ser Ala Phe Val Thr Leu Pro Thr Ile
 65 70 75 80

Phe Gly Arg Ala Gln Asn Val Asn Asp Asp Lys Val Cys Leu Val Ser
 85 90 95

Gln Asp Phe Gly Tyr Thr Ile Tyr Ser Thr Ala Leu Ala Ser Ser Pro
 100 105 110

Cys Ala Ser Cys Phe Ser Cys Thr Asn Arg Phe Thr Arg Pro Pro Gly
 115 120 125

Lys Ala Arg Pro Asn Thr Gly Tyr Leu Ala Ser Leu Glu Trp Ser Gln
 130 135 140

Thr Ala Val Val Thr Leu Asn Gly Thr Val Lys Phe Gln Glu Val Glu
 145 150 155 160

Glu Cys Ala Lys Leu Ser Arg Leu Leu Lys His Glu Arg Lys Lys Tyr
 165 170 175

Leu His Leu Ala Glu Thr Glu Ser Ser Asp
 180 185

<210> 266
 <211> 184
 <212> PRT
 <213> Homo sapiens

<400> 266

Phe Thr Val Ile Asn Val Cys Ser Cys Thr Cys Glu Val Lys Ser Phe
 1 5 10 15

Ser Leu Leu Ser Asn Ser Tyr Val Pro Asn Ile Phe Ser Lys Phe Leu
 20 25 30

Lys Thr Tyr Asn Gly Glu Lys Asn Asn Pro Phe Ser Ser Pro Ala Ser
 35 40 45

Leu Met Lys Asn Ser His Phe Ser Leu Phe Leu Leu Phe Leu Leu Val
 50 55 60

Val Phe His Ile Ser Cys Leu Ser Ala Val Ser Cys Phe Met Gln Phe

65 70 75 80

Arg Pro Tyr Leu Leu Thr Ser Leu Ser Phe Gln Tyr Lys Asp Ser Cys
 85 90 95

Ile Phe Ser Phe Asn Phe Thr Phe Leu Asn Ser Pro Phe Pro Phe Cys
 100 105 110

Asp Pro Gly Ile Ser Gly Val Leu Phe Phe Phe Ile Leu Pro Asp Phe
 115 120 125

Ile Tyr Ile Cys Val Tyr Ser Phe Leu Leu Phe Phe Lys Leu Lys Thr
 130 135 140

Cys Leu Ser Ser Lys Ser Gly Ser Phe Phe Phe Ser Trp Arg Pro Leu
145 150 155 160

Ser Gln Asn Pro Leu Ser Phe Cys Phe Asn Glu Asp Tyr Met Leu Ser
 165 170 175

Leu Trp Leu Pro Ser Cys Asn Thr
 180

<210> 267
<211> 201
<212> PRT
<213> Homo sapiens

<400> 267

Phe Pro Ser Leu Lys Asn Met His Phe Ser Val Pro Leu Arg Cys His
1 5 10 15

Thr Ile Ile Ser Val Gln Lys Arg Val Asn Thr Ala Asp Pro Arg Leu
 20 25 30

Leu Leu Leu Lys Cys Pro Ala Cys Lys Ala Gly Ser Trp Leu Val Phe
 35 40 45

Gly Val Leu Asp Phe Glu Lys Leu Pro Thr Ile Pro Ser Thr Gly Leu
 50 55 60

Cys Lys Tyr Gly Leu Tyr Ile Pro Ala Phe Leu Leu Glu Leu Glu Phe
65 70 75 80

Ser Lys Tyr Glu Ala Lys Arg Ala Tyr Val Thr Ser Pro Gln Pro Trp
 85 90 95

Ala Leu Ser His Gly Thr Ser Leu Ala Gly Ser Val Ser His Val Leu
 100 105 110

Ser Gln Phe Leu Ala Glu Arg Ile Lys His Ile Leu Cys Asn Phe Thr
 115 120 125

Gly Lys Arg Ile Leu Glu Ala Val Pro Gly Phe Phe Arg Leu Phe Leu
 130 135 140

Met His Leu Phe Leu Leu Leu Ile Met Leu Arg Tyr Pro Ser Val Asn
145 150 155 160

Lys Ser Leu Ile Gln Leu Tyr Ala Lys Ser Tyr Glu Ser Gln Asn Arg
 165 170 175

Gly Ile Ile Leu Gly Arg Pro Asp Thr Thr Lys Ile Asn Leu Lys Leu
 180 185 190

Asn Ser Ser Pro Thr Ser Leu Ser Pro
195 200

<210> 268
<211> 321
<212> PRT
<213> Homo sapiens

<400> 268

Met Asn Gln Thr Leu Asn Ser Ser Gly Thr Val Glu Ser Ala Leu Asn
1 5 10 15

Tyr Ser Arg Gly Ser Thr Val His Thr Ala Tyr Leu Val Leu Ser Ser
20 25 30

Leu Ala Met Phe Thr Cys Leu Cys Gly Met Ala Gly Asn Ser Met Val
35 40 45

Ile Trp Leu Leu Gly Phe Arg Met His Arg Asn Pro Phe Cys Ile Tyr
50 55 60

Ile Leu Asn Leu Ala Ala Ala Asp Leu Leu Phe Leu Phe Ser Met Ala
65 70 75 80

Ser Thr Leu Ser Leu Glu Thr Gln Pro Leu Val Asn Thr Thr Asp Lys
85 90 95

Val His Glu Leu Met Lys Arg Leu Met Tyr Phe Ala Tyr Thr Val Gly
100 105 110

Leu Ser Leu Leu Thr Ala Ile Ser Thr Gln Arg Cys Leu Ser Val Leu
115 120 125

Phe Pro Ile Trp Phe Lys Cys His Arg Pro Arg His Leu Ser Ala Trp
130 135 140

Val Cys Gly Leu Leu Trp Thr Leu Cys Leu Leu Met Asn Gly Leu Thr
145 150 155 160

Ser Ser Phe Cys Ser Lys Phe Leu Lys Phe Asn Glu Asp Arg Cys Phe
165 170 175

Arg Val Asp Met Val Gln Ala Ala Leu Ile Met Gly Val Leu Thr Pro
180 185 190

Val Met Thr Leu Ser Ser Leu Thr Leu Phe Val Trp Val Arg Arg Ser
195 200 205

Ser Gln Gln Trp Arg Arg Gln Pro Thr Arg Leu Phe Val Val Val Leu
210 215 220

Ala Ser Val Leu Val Phe Leu Ile Cys Ser Leu Pro Leu Ser Ile Tyr
225 230 235 240

Trp Phe Val Leu Tyr Trp Leu Ser Leu Pro Pro Glu Met Gln Val Leu
245 250 255

Cys Phe Ser Leu Ser Arg Leu Ser Ser Ser Val Ser Ser Ser Ala Asn
260 265 270

Pro Val Ile Tyr Phe Leu Val Gly Ser Arg Arg Ser His Arg Leu Pro
275 280 285

00100US1.ST25

Thr Arg Ser Leu Gly Thr Val Leu Gln Gln Ala Leu Arg Glu Glu Pro
 290 295 300

Glu Leu Glu Gly Gly Glu Thr Pro Thr Val Gly Thr Asn Glu Met Gly
 305 310 315 320

Ala

<210> 269
 <211> 9
 <212> PRT
 <213> Artificial

<220>
 <223> Novel Sequence

<400> 269

Ala Pro Arg Thr Pro Gly Gly Arg Arg
 1 5

<210> 270
 <211> 20
 <212> DNA
 <213> Artificial

<220>
 <223> Novel Sequence

<400> 270
 ctgtctctct gtcctcctcc 20

<210> 271
 <211> 22
 <212> DNA
 <213> Artificial

<220>
 <223> Novel Sequence

<400> 271
 gcaccgatct tcattgaatt tc 22

<210> 272
 <211> 33
 <212> DNA
 <213> Artificial

<220>
 <223> Novel Sequence

<400> 272
 gatcaagctt ggatgaacca gactttgaat agc 33

<210> 273
 <211> 31
 <212> DNA
 <213> Artificial

<220>
 <223> Novel Sequence

00100US1.ST25

<400> 273

gacccctcgag ctcaagcccc catctcattg g

31